Food Product	Side Stream	Description	Compound Group	Compound	Level	Unit	Reference
Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Waste compounds	16 poly aromatic hydrocarbons, total sum	1.3	mg/kg DM	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Waste compounds	16 poly aromatic hydrocarbons, total sum	65.1	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Waste compounds	16 poly aromatic hydrocarbons, total sum	1.9	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	16 poly aromatic hydrocarbons, total sum	9.3	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	16 poly aromatic hydrocarbons, total sum	8.6	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Waste compounds	16 poly aromatic hydrocarbons, total sum	1.2	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Waste compounds	16 poly aromatic hydrocarbons, total sum	1.5	mg/kg DM	ECN Phyllis 2
Canola	Juncea canola meal		Glucosinolates	2-OH-3-butenyl	0.67	µmol/g	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Apple	Apple cake		Undesirable components	2-Phenylethylamine	<1	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Undesirable components	2-Phenylethylamine	<1	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	2-Phenylethylamine	4.7	mg/kg	NOSHAN

Cheese	Cheese	Hard	Undesirable components	2-Phenylethylamine	5.6	mg/kg	NOSHAN
Cheese	Cheese	Soft	Undesirable components	2-Phenylethylamine	<1	mg/kg	NOSHAN
Cheese	Cheese	Soft and hard	Undesirable components	2-Phenylethylamine	<1	mg/kg	NOSHAN
Cucumber	Cucumber	Sour	Undesirable components	2-Phenylethylamine	<1	mg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	2-Phenylethylamine	17.9	mg/kg	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	2-Phenylethylamine	6.7	mg/kg	NOSHAN
Yoghurt	Yoghurt		Undesirable components	2-Phenylethylamine	<1	mg/kg	NOSHAN
Canola	Canola meal	Average of analysed values	Glucosinolates	2-hydroxy-3-butenyl	2.56	µmol/g DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities

Canola	Canola meal	Average of analysed values	Glucosinolates	2-hydroxy-3-pentenyl	0.16	µmol/g DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Phytosterols	24-methylene cycloartenol	0.3	mg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Potato	Sweet potato	Stem end of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	1.95	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	0.51	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	1.69	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	3.00	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	2.20	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	2.66	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Stem end of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	17.65	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	5.55	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	10.68	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	90.32	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Stem end of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	53.43	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	33.85	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	29.56	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	0.46	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	0.55	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	3,4-Dicaffeoylquinic Acid	0.42	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Stem end of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	44.89	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	12.48	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	30.98	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	111.2	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	73.27	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	92.64	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Stem end of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	196.2	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	97.47	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	156.6	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	50.79	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	55.79	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	10.79	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	6.33	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	3,5-Dicaffeoylquinic Acid	7.04	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Canola	Juncea canola meal		Glucosinolates	3-CH3-indolyl	0.06	µmol/g	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal

Potato	Sweet potato	Stem end of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	0.92	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	0.97	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	1.22	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Stem end of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	2.58	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	3.03	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	2.56	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	2.42	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	0.58	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	1.70	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Stem end of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	33.48	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	20.45	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	18.24	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	1.03	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	0.94	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	3-Caffeoylquinic Acid	0.94	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Canola	Juncea canola meal		Glucosinolates	3-butenyl	9.35	µmol/g	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal

Canola	Canola meal	Average of analysed values	Glucosinolates	3-butenyl	1.04	µmol/g DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Canola	Canola meal	Average of analysed values	Glucosinolates	3-indolylmethyl	0.19	µmol/g DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Potato	Sweet potato	Stem end of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	3.09	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	1.20	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	2.47	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	2.97	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	2.94	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	3.16	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Stem end of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	25.66	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	8.45	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	15.31	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	29.84	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	20.27	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	19.17	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Stem end of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	1.90	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	1.69	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	4,5-Dicaffeoylquinic Acid	1.09	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	0.13	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	0.04	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	0.07	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Stem end of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	0.00	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	0.00	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	0.00	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	0.00	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	0.00	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	0.00	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Stem end of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	3.05	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	2.62	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	3.15	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	0.36	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	0.34	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	4-Caffeoylquinic Acid	0.41	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Cinnamic acid derivatives	4-O-p-coumaroylquinic acid	36.4	mg/l	eBASIS - average of available values
Canola	Juncea canola meal		Glucosinolates	4-OH-3-CH3-indolyl	0.16	µmol/g	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal

Canola	Canola meal	Average of analysed values	Glucosinolates	4-hydroxy-3-indolylmethyl	0.65	µmol/g DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Rape	Rapeseed	Untreated	Waste compounds	4-hydroxy-glucobrassicin	3.4	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed press cake	Untreated	Waste compounds	4-hydroxy-glucobrassicin	4.7	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed press cake	Soaked and dried	Waste compounds	4-hydroxy-glucobrassicin	0.2	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Canola	Juncea canola meal		Glucosinolates	4-pentenyl	0.33	µmol/g	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Canola	Canola meal	Average of analysed values	Glucosinolates	4-pentenyl	0.15	µmol/g DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities

Orange	Orange peel	Orange	Waste compounds	4-terpineol	0.13	% in 0.6ml/100g	NOSHAN
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Cinnamic acid derivatives	5-Caffeoylquinic Acid	120.5	mg/l	eBASIS - average of available values
Potato	Sweet potato	Stem end of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	68.19	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	32.13	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Biomi (flesh colour: thin yellow)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	57.01	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	14.96	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	19.24	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Shingeonmi (flesh colour: deep yellow)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	15.48	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Stem end of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	58.32	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	46.08	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Shinhwangmi (flesh colour: orange)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	73.20	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Stem end of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	51.26	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Middle part of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	63.79	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Opposite stem end of tuber. Variety: Shinjami (flesh colour: purple)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	74.56	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Stem end of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	13.34	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Potato	Sweet potato	Middle part of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	11.25	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots
Potato	Sweet potato	Opposite stem end of tuber. Variety: Yulmi (flesh colour: cream)	Cinnamic acid derivatives	5-Caffeoylquinic Acid	13.24	mg/100g	Distribution of phenolic compounds and antioxidative activities in parts of sweet potato (Ipomoea batata L.) plants and in home processed roots

Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Waste compounds	Absolute viscosity at 30°C	159	cSt	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Waste compounds	Absolute viscosity at 30°C	166	cSt	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Waste compounds	Absolute viscosity at 60°C	33	cSt	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Waste compounds	Absolute viscosity at 60°C	39	cSt	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Waste compounds	Absolute viscosity at 80°C	17	cSt	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Waste compounds	Absolute viscosity at 80°C	16	cSt	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Sugar by-products, unspecified	Bagasse		Proximates	Acetate	3.4	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Proximates	Acetate	5.6	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Sugar by-products, unspecified	Bagasse		Proximates	Acetate	3.4	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Proximates	Acetate	5.6	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Bamboo	Bamboo shoot shells	Ensiled	Proximates	Acetate	13	% DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Organic acids	Acetic acid	6.99	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Organic acids	Acetic acid	5.09	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Organic acids	Acetic acid	3.95	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Organic acids	Acetic acid	9.71	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Sugar by-products, unspecified	Wastewater	1h settled	Organic acids	Acetic acid	394	mg/l	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters
Orange	Orange peel	Fresh	Organic acids	Acetic acid	20.0	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange peel silage		Organic acids	Acetic acid	64.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp silage		Organic acids	Acetic acid	29.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Fresh	Organic acids	Acetic acid	3.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Waste compounds	Acetone	100	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Waste compounds	Acetone	100	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Grape	Grape stalks		Waste compounds	Acetone	2.3	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Sugar by-products, unspecified	Bagasse		Proximates	Acetyl	2.6	% DM	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Olive	Olive tree pruning	Biomass	Proximates	Acetyl groups	2.3	% DM	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass

Canola	Canola cake		Proximates	Acid Detergent Fiber (ADF), insoluble	14.71	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Castor	Castor seed cake		Proximates	Acid Detergent Fiber (ADF), insoluble	16.64	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower cake		Proximates	Acid Detergent Fiber (ADF), insoluble	22.39	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Acid Detergent Fibre (ADF)	23.5	%	Wet brewers' grains for beef cattle
Banana	Banana leaves		Proximates	Acid Detergent Fibre (ADF)	30-40	%	Utilization of fruit and vegetable wastes, FAO
Banana	Banana pseudo stems		Proximates	Acid Detergent Fibre (ADF)	30-40	%	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato	Cull	Proximates	Acid Detergent Fibre (ADF)	22	%	Utilization of fruit and vegetable wastes, FAO
Beef	Rumen content	Abattoir waste	Proximates	Acid Detergent Fibre (ADF)	42.8	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Acid Detergent Fibre (ADF)	19.84	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Acid Detergent Fibre (ADF)	1.8	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Apple	Apple pomace		Proximates	Acid Detergent Fibre (ADF)	38.79	% d.b.	Apple pomace as a supplement to pasture for dairy cows in late lactation
Apple	Apple pomace, dried	Dried	Proximates	Acid Detergent Fibre (ADF)	28	% d.b.	2012FeedComp
Apple	Apple pomace	Malus domestica	Proximates	Acid Detergent Fibre (ADF)	43.2	% d.b.	Fruit waste as feed paper
Citrus, unspecified	Citrus pulp, dried		Proximates	Acid Detergent Fibre (ADF)	20	% DM	2012FeedComp
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Acid Detergent Fibre (ADF)	24.5	% d.b.	Utilization of fruit and vegetable wastes, FAO
Cranberry	Cranberry pulp meal		Proximates	Acid Detergent Fibre (ADF)	47	% d.b.	2012FeedComp
Orange	Orange pulp, dried		Proximates	Acid Detergent Fibre (ADF)	16	% DM	2012FeedComp
Citrus, unspecified	Citrus molasses		Proximates	Acid Detergent Fibre (ADF)	0	% DM	2012FeedComp

Tomatoes	Tomato pomace, dried	Dried	Proximates	Acid Detergent Fibre (ADF)	50	% d.b.	2012FeedComp
Tomatoes	Tomato pomace	Solanum lucopersicum	Proximates	Acid Detergent Fibre (ADF)	46.2-51.0	% d.b.	Vegetable waste as animal feed paper
Rice	Rice hull		Proximates	Acid Detergent Fibre (ADF)	70	% d.b.	2012FeedComp
Rice	Rice mill byproduct		Proximates	Acid Detergent Fibre (ADF)	50	% d.b.	2012FeedComp
Poultry	Feather meal	Hydrolyzed	Proximates	Acid Detergent Fibre (ADF)	14	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Beta vulgaris	Proximates	Acid Detergent Fibre (ADF)	23.1	% d.b.	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Acid Detergent Fibre (ADF)	21.1	% d.b.	Utilization of fruit and vegetable wastes, FAO
Sunflower	Sunflower oil cake	By-product. Helianthus annuus (seed)	Proximates	Acid Detergent Fibre (ADF)	48	% d.b.	Cropgen database

Barley	Barley grain screenings		Proximates	Acid Detergent Fibre (ADF)	11	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Acid Detergent Fibre (ADF)	21	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Proximates	Acid Detergent Fibre (ADF)	4	% d.b.	2012FeedComp
Grape	Grape pomace	Stemless	Proximates	Acid Detergent Fibre (ADF)	46	% d.b.	2012FeedComp
Grape	Grape pomace/marc	Namily vitaceae	Proximates	Acid Detergent Fibre (ADF)	48.4-54.9	% d.b.	Fruit waste as feed paper
Grape	Grape vine shoot	Vitis vinifera	Proximates	Acid Detergent Fibre (ADF)	51.1	% d.b.	Fruit waste as feed paper
Distillers grain	Distillers grain	Wet	Proximates	Acid Detergent Fibre (ADF)	18	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Proximates	Acid Detergent Fibre (ADF)	19	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Proximates	Acid Detergent Fibre (ADF)	18	% d.b.	2012FeedComp

Sunflower	Sunflower oil cake		Proximates	Acid Detergent Fibre (ADF)	35	% d.b.	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake
Nuts, unspecified	Nut hulls	Almond	Proximates	Acid Detergent Fibre (ADF)	29	% d.b.	2012FeedComp
Apple	Apple		Proximates	Acid Detergent Fibre (ADF)	9	% DM	2012FeedComp
Apple	Apple pomace	Wet	Proximates	Acid Detergent Fibre (ADF)	27	% d.b.	2012FeedComp
Banana	Banana		Proximates	Acid Detergent Fibre (ADF)	5	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Proximates	Acid Detergent Fibre (ADF)	25	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Proximates	Acid Detergent Fibre (ADF)	26	% d.b.	2012FeedComp

Sugar beet	Sugar beet pulp	Wet with molasses	Proximates	Acid Detergent Fibre (ADF)	21	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Proximates	Acid Detergent Fibre (ADF)	23	% d.b.	2012FeedComp
Sugar beet	Sugar beet root		Proximates	Acid Detergent Fibre (ADF)	7	% d.b.	2012FeedComp
Sugar beet	Sugar beet tops		Proximates	Acid Detergent Fibre (ADF)	14	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Proximates	Acid Detergent Fibre (ADF)	2	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Proximates	Acid Detergent Fibre (ADF)	0	% d.b.	2012FeedComp
Bread	Bread by product		Proximates	Acid Detergent Fibre (ADF)	2	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	Acid Detergent Fibre (ADF)	24	% d.b.	2012FeedComp
Butter	Buttermilk, dried		Proximates	Acid Detergent Fibre (ADF)	0	% d.b.	2012FeedComp

Bread	Calcium carbonate		Proximates	Acid Detergent Fibre (ADF)	0	% d.b.	2012FeedComp
Carrot	Carrot pulp		Proximates	Acid Detergent Fibre (ADF)	23	% d.b.	2012FeedComp
Carrot	Carrot	Roots, fresh	Proximates	Acid Detergent Fibre (ADF)	11	% d.b.	2012FeedComp
Carrot	Carrot tops		Proximates	Acid Detergent Fibre (ADF)	23	% d.b.	2012FeedComp
Beef	Cattle manure, dried	Dried	Proximates	Acid Detergent Fibre (ADF)	42	% d.b.	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Proximates	Acid Detergent Fibre (ADF)	21	% d.b.	2012FeedComp
Coffee	Coffee grounds		Proximates	Acid Detergent Fibre (ADF)	68	% d.b.	2012FeedComp
Cotton	Cottonseed hulls		Proximates	Acid Detergent Fibre (ADF)	70	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Proximates	Acid Detergent Fibre (ADF)	18	% d.b.	2012FeedComp

Cotton	Cottonseed meal	Mech. Ext. 41% CP	Proximates	Acid Detergent Fibre (ADF)	19	% d.b.	2012FeedComp
Crab	Crab waste meal		Proximates	Acid Detergent Fibre (ADF)	13	% d.b.	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Proximates	Acid Detergent Fibre (ADF)	35	% d.b.	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Proximates	Acid Detergent Fibre (ADF)	33	% d.b.	2012FeedComp
Crawfish	Crawfish waste meal		Proximates	Acid Detergent Fibre (ADF)	15	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Barley	Proximates	Acid Detergent Fibre (ADF)	20	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Proximates	Acid Detergent Fibre (ADF)	16	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Proximates	Acid Detergent Fibre (ADF)	16	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Proximates	Acid Detergent Fibre (ADF)	16	% d.b.	2012FeedComp

Distillery by-products, unspecified	Distillers solubles, dried	Dried	Proximates	Acid Detergent Fibre (ADF)	7	% d.b.	2012FeedComp
Distillers grain	Distillers corn stillage		Proximates	Acid Detergent Fibre (ADF)	10	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Proximates	Acid Detergent Fibre (ADF)	20	% d.b.	2012FeedComp
Fish, unspecified	Fish meal		Proximates	Acid Detergent Fibre (ADF)	2	% d.b.	2012FeedComp
Flax/linseed	Flax seed hulls		Proximates	Acid Detergent Fibre (ADF)	39	% d.b.	2012FeedComp
Hop	Hop vine silage		Proximates	Acid Detergent Fibre (ADF)	24	% d.b.	2012FeedComp
Hop	Hops	Spent	Proximates	Acid Detergent Fibre (ADF)	30	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Proximates	Acid Detergent Fibre (ADF)	18	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Proximates	Acid Detergent Fibre (ADF)	17	% d.b.	2012FeedComp

Poultry	Meat meal	Swine/poultry	Proximates	Acid Detergent Fibre (ADF)	7	% d.b.	2012FeedComp
Sugar beet	Sugar beet molasses		Proximates	Acid Detergent Fibre (ADF)	0	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses		Proximates	Acid Detergent Fibre (ADF)	0	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Proximates	Acid Detergent Fibre (ADF)	3	% d.b.	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Proximates	Acid Detergent Fibre (ADF)	0	% d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Proximates	Acid Detergent Fibre (ADF)	65	% d.b.	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Proximates	Acid Detergent Fibre (ADF)	16	% d.b.	2012FeedComp
Nuts, unspecified	Nut skins	Peanut	Proximates	Acid Detergent Fibre (ADF)	20	% d.b.	2012FeedComp
Pineapple	Pineapple greenchop		Proximates	Acid Detergent Fibre (ADF)	35	% d.b.	2012FeedComp

Pineapple	Pineapple bran		Proximates	Acid Detergent Fibre (ADF)	33	% d.b.	2012FeedComp
Pineapple	Pineapple presscake		Proximates	Acid Detergent Fibre (ADF)	35	% d.b.	2012FeedComp
Potato	Potato	Cull	Proximates	Acid Detergent Fibre (ADF)	3	% d.b.	2012FeedComp
Potato	Potato waste	Wet	Proximates	Acid Detergent Fibre (ADF)	11	% d.b.	2012FeedComp
Potato	Potato waste, dried	Dried	Proximates	Acid Detergent Fibre (ADF)	9	% d.b.	2012FeedComp
Potato	Potato waste	Wet with lime	Proximates	Acid Detergent Fibre (ADF)	12	% d.b.	2012FeedComp
Poultry	Poultry manure, dried	Dried	Proximates	Acid Detergent Fibre (ADF)	15	% d.b.	2012FeedComp
Rice	Rice straw		Proximates	Acid Detergent Fibre (ADF)	47	% d.b.	2012FeedComp
Rice	Rice straw	Ammoniated	Proximates	Acid Detergent Fibre (ADF)	53	% d.b.	2012FeedComp

Rice	Rice grain		Proximates	Acid Detergent Fibre (ADF)	12	% d.b.	2012FeedComp
Rice	Rice polishings		Proximates	Acid Detergent Fibre (ADF)	5	% d.b.	2012FeedComp
Rice	Rice bran		Proximates	Acid Detergent Fibre (ADF)	18	% d.b.	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Proximates	Acid Detergent Fibre (ADF)	41	% d.b.	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Proximates	Acid Detergent Fibre (ADF)	20	% d.b.	2012FeedComp
Safflower	Safflower hulls		Proximates	Acid Detergent Fibre (ADF)	73	% d.b.	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Proximates	Acid Detergent Fibre (ADF)	22	% d.b.	2012FeedComp
Sunflower	Sunflower meal	With hulls	Proximates	Acid Detergent Fibre (ADF)	32	% d.b.	2012FeedComp
Sunflower	Sunflower seed hulls		Proximates	Acid Detergent Fibre (ADF)	63	% d.b.	2012FeedComp

Sugar cane	Sugar cane bagasse		Proximates	Acid Detergent Fibre (ADF)	60	% d.b.	2012FeedComp
Tomatoes	Tomato		Proximates	Acid Detergent Fibre (ADF)	11	% d.b.	2012FeedComp
Wheat	Wheat	Fresh, pasture	Proximates	Acid Detergent Fibre (ADF)	30	% d.b.	2012FeedComp
Wheat	Wheat hay		Proximates	Acid Detergent Fibre (ADF)	38	% d.b.	2012FeedComp
Wheat	Wheat silage		Proximates	Acid Detergent Fibre (ADF)	37	% d.b.	2012FeedComp
Wheat	Wheat straw		Proximates	Acid Detergent Fibre (ADF)	57	% d.b.	2012FeedComp
Wheat	Wheat straw	Ammoniated	Proximates	Acid Detergent Fibre (ADF)	55	% d.b.	2012FeedComp
Wheat	Wheat grain		Proximates	Acid Detergent Fibre (ADF)	4	% d.b.	2012FeedComp
Wheat	Wheat grain	Hard	Proximates	Acid Detergent Fibre (ADF)	6	% d.b.	2012FeedComp

Wheat	Wheat grain	Soft	Proximates	Acid Detergent Fibre (ADF)	4	% d.b.	2012FeedComp
Wheat	Wheat grain	Steam flaked	Proximates	Acid Detergent Fibre (ADF)	4	% d.b.	2012FeedComp
Wheat	Wheat grain	Sprouted	Proximates	Acid Detergent Fibre (ADF)	4	% d.b.	2012FeedComp
Wheat	Wheat bran		Proximates	Acid Detergent Fibre (ADF)	14	% d.b.	2012FeedComp
Wheat	Wheat middlings		Proximates	Acid Detergent Fibre (ADF)	11	% d.b.	2012FeedComp
Wheat	Wheat mill run		Proximates	Acid Detergent Fibre (ADF)	12	% d.b.	2012FeedComp
Wheat	Wheat shorts		Proximates	Acid Detergent Fibre (ADF)	10	% d.b.	2012FeedComp
Cheese	Whey, dried	Dried	Proximates	Acid Detergent Fibre (ADF)	0	% d.b.	2012FeedComp

Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Proximates	Acid Detergent Fibre (ADF)	48	% d.b.	Cropgen database
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Acid Detergent Fibre (ADF)	19.4	% d.b.	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Acid Detergent Fibre (ADF)	22.6	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Proximates	Acid Detergent Fibre (ADF)	8	% d.b.	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Acid Detergent Fibre (ADF)	24.5	% d.b.	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Proximates	Acid Detergent Fibre (ADF)	43.2	% d.b.	Utilization of fruit and vegetable wastes, FAO

Grape	Grape pomace	Namily vitaceae	Proximates	Acid Detergent Fibre (ADF)	48.4-52.6	% d.b.	Utilization of fruit and vegetable wastes, FAO
Pineapple	Pineapple bran	Ananas comosus	Proximates	Acid Detergent Fibre (ADF)	37	% d.b.	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Acid Detergent Fibre (ADF)	51	% d.b.	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Acid Detergent Fibre (ADF)	25.3	% d.b.	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Proximates	Acid Detergent Fibre (ADF)	35.7	% d.b.	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Acid Detergent Fibre (ADF)	30.7	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Acid Detergent Fibre (ADF)	20	% d.b.	Utilization of fruit and vegetable wastes, FAO

Carrot	Carrot	Daucus carota	Proximates	Acid Detergent Fibre (ADF)	8	% d.b.	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Proximates	Acid Detergent Fibre (ADF)	20	% d.b.	Vegetable waste as animal feed paper
Cucumber	Cucumber	Cucumis sativus	Proximates	Acid Detergent Fibre (ADF)	2.5	% d.b.	Vegetable waste as animal feed paper
Cucumber	Cucumber peel	Cucumis sativus	Proximates	Acid Detergent Fibre (ADF)	23	% d.b.	Vegetable waste as animal feed paper
Food, unspecified	Grocery by-product waste	Fruits, vegetables and bakery items from retail grocery stores	Proximates	Acid Detergent Fibre (ADF)	10.3	% d.b.	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Proximates	Acid Detergent Fibre (ADF)	11.4	% d.b.	Vegetable waste as animal feed paper
Potato	Potato vines	Solanum tuberosum	Proximates	Acid Detergent Fibre (ADF)	23-30	% d.b.	Vegetable waste as animal feed paper

Tomatoes	Tomato	L.esculentum	Proximates	Acid Detergent Fibre (ADF)	4.9-21.7	% d.b.	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Acid Detergent Fibre (ADF)	46.2-51	% d.b.	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Proximates	Acid Detergent Fibre (ADF)	22.6	% d.b.	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Proximates	Acid Detergent Fibre (ADF)	19.4	% d.b.	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Acid Detergent Fibre (ADF)	21.1	% d.b.	Vegetable waste as animal feed paper
Bakery	Bakery product, dried	Dried	Proximates	Acid Detergent Fibre (ADF)	9	% d.b.	2012FeedComp
Canola	Canola meal	Solv. Ext.	Proximates	Acid Detergent Fibre (ADF)	19	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole	Proximates	Acid Detergent Fibre (ADF)	37	% d.b.	2012FeedComp

Cotton	Cottonseed	Whole, delinted	Proximates	Acid Detergent Fibre (ADF)	28	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Proximates	Acid Detergent Fibre (ADF)	44	% d.b.	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Proximates	Acid Detergent Fibre (ADF)	5	% d.b.	2012FeedComp
Milk	Milk, dried	Dry, skim	Proximates	Acid Detergent Fibre (ADF)	0	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp		Proximates	Acid Detergent Fibre (ADF)	21.97	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Sugar beet	Sugar beet pulp		Proximates	Acid Detergent Fibre (ADF)	20.08	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Acid Detergent Fibre (ADF)	17.21	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Acid Detergent Fibre (ADF)	9.38	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Rice	Rice bran		Proximates	Acid Detergent Fibre (ADF)	10.39	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Acid Detergent Fibre (ADF)	9.12	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Acid Detergent Fibre (ADF)	25.96	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Almond	Almond hulls		Proximates	Acid Detergent Fibre (ADF)	23.71	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Acid Detergent Fibre (ADF)	29.14	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Acid Detergent Fibre (ADF)	18.06	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Citrus, unspecified	Citrus pulp		Proximates	Acid Detergent Fibre (ADF)	13.85	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Acid Detergent Fibre (ADF)	21.6	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Acid Detergent Fibre (ADF)	7.51	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Bakery	Bakery waste		Proximates	Acid Detergent Fibre (ADF)	6.45	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Acid Detergent Fibre (ADF)	4.96	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Acid Detergent Fibre (ADF)	10.75	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Wheat	Wheat mill run		Proximates	Acid Detergent Fibre (ADF)	13.12	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Acid Detergent Fibre (ADF)	8.06	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Acid Detergent Fibre (ADF)	20.1	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Acid Detergent Fibre (ADF)	15.5	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Acid Detergent Fibre (ADF)	20.06	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Acid Detergent Fibre (ADF)	15.87	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Distillers grain	Distillers grain		Proximates	Acid Detergent Fibre (ADF)	21.17	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Acid Detergent Fibre (ADF)	22.01	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice straw		Proximates	Acid Detergent Fibre (ADF)	42.4	% d.b.	Feedipedia
Rice	Rice straw	Urea-treated	Proximates	Acid Detergent Fibre (ADF)	42.3	% d.b.	Feedipedia
Rice	Rice straw	NaOH-treated	Proximates	Acid Detergent Fibre (ADF)	37.7	% d.b.	Feedipedia

Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Acid Detergent Fibre (ADF)	29.7	% d.b.	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Acid Detergent Fibre (ADF)	27.3	% d.b.	Feedipedia
Sugar cane	Sugar cane leaves	Fresh	Proximates	Acid Detergent Fibre (ADF)	38.9	% d.b.	Feedipedia
Sugar cane	Sugar cane leaves, dried	Dry	Proximates	Acid Detergent Fibre (ADF)	43.2	% d.b.	Feedipedia
Wheat	Triticale grain		Proximates	Acid Detergent Fibre (ADF)	3.7	% d.b.	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Acid Detergent Fibre (ADF)	30.5	% d.b.	Feedipedia
Wheat	Triticale straw		Proximates	Acid Detergent Fibre (ADF)	47.5	% d.b.	Feedipedia
Wheat	Wheat hay		Proximates	Acid Detergent Fibre (ADF)	39.2	% d.b.	Feedipedia
Wheat	Wheat straw		Proximates	Acid Detergent Fibre (ADF)	50	% d.b.	Feedipedia

Wheat	Wheat forage	Fresh	Proximates	Acid Detergent Fibre (ADF)	31.9	% d.b.	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Acid Detergent Fibre (ADF)	49.3	% d.b.	Feedipedia
Palm	Oil palm fronds, dried	Dried, Elaeis guineensis	Proximates	Acid Detergent Fibre (ADF)	65	% d.b.	Feedipedia
Palm	Oil palm fronds	Silage	Proximates	Acid Detergent Fibre (ADF)	48.4	% d.b.	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Acid Detergent Fibre (ADF)	40	% d.b.	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Acid Detergent Fibre (ADF)	26.4	% d.b.	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Acid Detergent Fibre (ADF)	15.5	% d.b.	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Acid Detergent Fibre (ADF)	23.8	% d.b.	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Acid Detergent Fibre (ADF)	0.7	% d.b.	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Acid Detergent Fibre (ADF)	21.9	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Acid Detergent Fibre (ADF)	20.8	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Acid Detergent Fibre (ADF)	21	% d.b.	Feedipedia
Rice	Rice grain	Polished	Proximates	Acid Detergent Fibre (ADF)	1.4	% d.b.	Feedipedia
Rice	Rice grain	Brown	Proximates	Acid Detergent Fibre (ADF)	1.6	% d.b.	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Acid Detergent Fibre (ADF)	16.7	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Acid Detergent Fibre (ADF)	13.6	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Acid Detergent Fibre (ADF)	12.7	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Acid Detergent Fibre (ADF)	14	% d.b.	Feedipedia

Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Acid Detergent Fibre (ADF)	17.7	% d.b.	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Acid Detergent Fibre (ADF)	3.2	% d.b.	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Acid Detergent Fibre (ADF)	11.2	% d.b.	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Acid Detergent Fibre (ADF)	19.6	% d.b.	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Acid Detergent Fibre (ADF)	32.7	% d.b.	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Acid Detergent Fibre (ADF)	12.5	% d.b.	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Acid Detergent Fibre (ADF)	18	% d.b.	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Acid Detergent Fibre (ADF)	35.4	% d.b.	Feedipedia
Rice	Rice hull		Proximates	Acid Detergent Fibre (ADF)	51.7	% d.b.	Feedipedia

Rice	Rough rice, paddy rice		Proximates	Acid Detergent Fibre (ADF)	13.3	% d.b.	Feedipedia
Sorghum	Sorghum bran and milling offal		Proximates	Acid Detergent Fibre (ADF)	11.5	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Acid Detergent Fibre (ADF)	24.6	% d.b.	Feedipedia
Distillers grain	Distillers grain	Fresh, Sorghum, with or without solubles	Proximates	Acid Detergent Fibre (ADF)	25.6	% d.b.	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Acid Detergent Fibre (ADF)	19.8	% d.b.	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Acid Detergent Fibre (ADF)	4.3	% d.b.	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Acid Detergent Fibre (ADF)	6.4	% d.b.	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Acid Detergent Fibre (ADF)	4.2	% d.b.	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Acid Detergent Fibre (ADF)	3.5	% d.b.	Feedipedia

Sorghum	Sorghum grain	White varieties	Proximates	Acid Detergent Fibre (ADF)	3.1	% d.b.	Feedipedia
Wheat	Wheat starch		Proximates	Acid Detergent Fibre (ADF)	0.7	% d.b.	Feedipedia
Wheat	Wheat bran		Proximates	Acid Detergent Fibre (ADF)	13.4	% d.b.	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Acid Detergent Fibre (ADF)	14.5	% d.b.	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Acid Detergent Fibre (ADF)	7.1	% d.b.	Feedipedia
Wheat	Wheat germs		Proximates	Acid Detergent Fibre (ADF)	4.2	% d.b.	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Proximates	Acid Detergent Fibre (ADF)	26.5	% d.b.	Feedipedia
Wheat	Wheat grain		Proximates	Acid Detergent Fibre (ADF)	3.6	% d.b.	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Acid Detergent Fibre (ADF)	3.8	% d.b.	Feedipedia

Wheat	Wheat screenings		Proximates	Acid Detergent Fibre (ADF)	4.6	% d.b.	Feedipedia
Nuts, unspecified	Nut kernels	Almond	Proximates	Acid Detergent Fibre (ADF)	3.3	% d.b.	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Proximates	Acid Detergent Fibre (ADF)	19.1	% d.b.	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Proximates	Acid Detergent Fibre (ADF)	15.6	% d.b.	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Proximates	Acid Detergent Fibre (ADF)	15.4	% d.b.	Feedipedia
Argan	Argan oil cake	Solvent-extracted, Argania spinosa	Proximates	Acid Detergent Fibre (ADF)	6.4	% d.b.	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Acid Detergent Fibre (ADF)	9.2	% d.b.	Feedipedia
Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Acid Detergent Fibre (ADF)	40	% d.b.	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Acid Detergent Fibre (ADF)	36.8	% d.b.	Feedipedia

Cacao/cocoa	Cocoa oil meal		Proximates	Acid Detergent Fibre (ADF)	29.3	% d.b.	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Acid Detergent Fibre (ADF)	43.5	% d.b.	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Acid Detergent Fibre (ADF)	28.7	% d.b.	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Acid Detergent Fibre (ADF)	30.7	% d.b.	Feedipedia
Cotton	Cotton straw		Proximates	Acid Detergent Fibre (ADF)	64.5	% d.b.	Feedipedia
Cotton	Cotton leaves	Fresh	Proximates	Acid Detergent Fibre (ADF)	15.4	% d.b.	Feedipedia
Cotton	Cottonseed hulls		Proximates	Acid Detergent Fibre (ADF)	63	% d.b.	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Acid Detergent Fibre (ADF)	17.8	% d.b.	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Acid Detergent Fibre (ADF)	15	% d.b.	Feedipedia

Cotton	Cottonseed meal	High fibre, high oil	Proximates	Acid Detergent Fibre (ADF)	23.3	% d.b.	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Acid Detergent Fibre (ADF)	25.9	% d.b.	Feedipedia
Flax/linseed	Flax straw		Proximates	Acid Detergent Fibre (ADF)	67.6	% d.b.	Feedipedia
Flax/linseed	Flax shives		Proximates	Acid Detergent Fibre (ADF)	62.7	% d.b.	Feedipedia
Flax/linseed	Flax, aerial part	Fresh	Proximates	Acid Detergent Fibre (ADF)	46.7	% d.b.	Feedipedia
Grape	Grape seeds		Proximates	Acid Detergent Fibre (ADF)	59.2	% d.b.	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Acid Detergent Fibre (ADF)	66.8	% d.b.	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Proximates	Acid Detergent Fibre (ADF)	56	% d.b.	Feedipedia
Flax/linseed	Linseed meal		Proximates	Acid Detergent Fibre (ADF)	15.3	% d.b.	Feedipedia

Flax/linseed	Linseed meal	Solvent extraction	Proximates	Acid Detergent Fibre (ADF)	15.7	% d.b.	Feedipedia
Flax/linseed	Linseeds		Proximates	Acid Detergent Fibre (ADF)	10.3	% d.b.	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Acid Detergent Fibre (ADF)	12.2	% d.b.	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Acid Detergent Fibre (ADF)	12	% d.b.	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Acid Detergent Fibre (ADF)	7.8	% d.b.	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Acid Detergent Fibre (ADF)	9.3	% d.b.	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Acid Detergent Fibre (ADF)	7.5	% d.b.	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Acid Detergent Fibre (ADF)	11.7	% d.b.	Feedipedia
Palm	Oil palm kernels		Proximates	Acid Detergent Fibre (ADF)	34.8	% d.b.	Feedipedia

Olive	Olive oil cake	Crude, with stones	Proximates	Acid Detergent Fibre (ADF)	56.1	% d.b.	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Acid Detergent Fibre (ADF)	46.3	% d.b.	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Acid Detergent Fibre (ADF)	55.6	% d.b.	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Proximates	Acid Detergent Fibre (ADF)	43.6	% d.b.	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Acid Detergent Fibre (ADF)	37.8	% d.b.	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Acid Detergent Fibre (ADF)	39.1	% d.b.	Feedipedia
Olive	Olive oil vegetation water		Proximates	Acid Detergent Fibre (ADF)	0.9	% d.b.	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Acid Detergent Fibre (ADF)	44.8	% d.b.	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Acid Detergent Fibre (ADF)	45	% d.b.	Feedipedia

Palm	Palm oil mill effluent	Decanted	Proximates	Acid Detergent Fibre (ADF)	22.1	% d.b.	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Acid Detergent Fibre (ADF)	44.3	% d.b.	Feedipedia
Palm	Palm press fibre	High oil	Proximates	Acid Detergent Fibre (ADF)	42.8	% d.b.	Feedipedia
Palm	Palm press fibre	Low oil	Proximates	Acid Detergent Fibre (ADF)	72	% d.b.	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Acid Detergent Fibre (ADF)	43.9	% d.b.	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Acid Detergent Fibre (ADF)	29.1	% d.b.	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Acid Detergent Fibre (ADF)	56.4	% d.b.	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Acid Detergent Fibre (ADF)	10	% d.b.	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Acid Detergent Fibre (ADF)	16.6	% d.b.	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Acid Detergent Fibre (ADF)	9.9	% d.b.	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Acid Detergent Fibre (ADF)	5.7	% d.b.	Feedipedia
Peanuts	Peanuts, with shells	With shells	Proximates	Acid Detergent Fibre (ADF)	29	% d.b.	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Acid Detergent Fibre (ADF)	33.4	% d.b.	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Acid Detergent Fibre (ADF)	23.3	% d.b.	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Acid Detergent Fibre (ADF)	31.9	% d.b.	Feedipedia
Pumpkin	Pumpkin	Fruits, dried, Cucurbita sp.	Proximates	Acid Detergent Fibre (ADF)	9.7	% d.b.	Feedipedia
Pumpkin	Pumpkin crop by-product	Fresh, Cucurbita sp.	Proximates	Acid Detergent Fibre (ADF)	27.9	% d.b.	Feedipedia
Rape	Rape forage	Fresh	Proximates	Acid Detergent Fibre (ADF)	19.5	% d.b.	Feedipedia

Rape	Rape straw		Proximates	Acid Detergent Fibre (ADF)	62.3	% d.b.	Feedipedia
Rape	Rapeseed hulls		Proximates	Acid Detergent Fibre (ADF)	41.6	% d.b.	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Acid Detergent Fibre (ADF)	20.4	% d.b.	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Acid Detergent Fibre (ADF)	19.7	% d.b.	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Acid Detergent Fibre (ADF)	19.1	% d.b.	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Acid Detergent Fibre (ADF)	14.4	% d.b.	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Acid Detergent Fibre (ADF)	60.5	% d.b.	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Acid Detergent Fibre (ADF)	42.3	% d.b.	Feedipedia

Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Acid Detergent Fibre (ADF)	33.4	% d.b.	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Acid Detergent Fibre (ADF)	13.5	% d.b.	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Acid Detergent Fibre (ADF)	18.4	% d.b.	Feedipedia
Sesame	Sesame seeds	Whole	Proximates	Acid Detergent Fibre (ADF)	8	% d.b.	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Acid Detergent Fibre (ADF)	37.2	% d.b.	Feedipedia
Soy	Soybean hay		Proximates	Acid Detergent Fibre (ADF)	34.9	% d.b.	Feedipedia
Soy	Soybean straw		Proximates	Acid Detergent Fibre (ADF)	59.9	% d.b.	Feedipedia
Soy	Soybean hulls		Proximates	Acid Detergent Fibre (ADF)	46.2	% d.b.	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Acid Detergent Fibre (ADF)	8.3	% d.b.	Feedipedia

Soy	Soybean meal	High protein (non-dehulled)	Proximates	Acid Detergent Fibre (ADF)	5.9	% d.b.	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Acid Detergent Fibre (ADF)	5.9	% d.b.	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Acid Detergent Fibre (ADF)	7.7	% d.b.	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Acid Detergent Fibre (ADF)	4.8	% d.b.	Feedipedia
Soy	Soybeans	Toasted	Proximates	Acid Detergent Fibre (ADF)	8	% d.b.	Feedipedia
Soy	Soybeans	Extruded	Proximates	Acid Detergent Fibre (ADF)	7.7	% d.b.	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Acid Detergent Fibre (ADF)	35.9	% d.b.	Feedipedia
Sunflower	Sunflower forage	Silage	Proximates	Acid Detergent Fibre (ADF)	34.9	% d.b.	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Proximates	Acid Detergent Fibre (ADF)	56.6	% d.b.	Feedipedia

Sunflower	Sunflower heads	Without seeds	Proximates	Acid Detergent Fibre (ADF)	26.3	% d.b.	Feedipedia
Sunflower	Sunflower hulls		Proximates	Acid Detergent Fibre (ADF)	60.1	% d.b.	Feedipedia
Sunflower	Sunflower screenings		Proximates	Acid Detergent Fibre (ADF)	57.2	% d.b.	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Acid Detergent Fibre (ADF)	32	% d.b.	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Acid Detergent Fibre (ADF)	26.6	% d.b.	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Acid Detergent Fibre (ADF)	33.2	% d.b.	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Acid Detergent Fibre (ADF)	30.2	% d.b.	Feedipedia
Sunflower	Sunflower seeds		Proximates	Acid Detergent Fibre (ADF)	19.5	% d.b.	Feedipedia

Apple	Apple pomace, dried	Dehydrated	Proximates	Acid Detergent Fibre (ADF)	57.7	% d.b.	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Acid Detergent Fibre (ADF)	34.2	% d.b.	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Acid Detergent Fibre (ADF)	7.4	% DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Acid Detergent Fibre (ADF)	7.4	% d.b.	Feedipedia
Banana	Banana fruits, ensiled	Mature, ensiled	Proximates	Acid Detergent Fibre (ADF)	13.2	% d.b.	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Acid Detergent Fibre (ADF)	7.6	% d.b.	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Proximates	Acid Detergent Fibre (ADF)	7.9	% d.b.	Feedipedia
Banana	Banana fruits, ensiled	Immature, ensiled	Proximates	Acid Detergent Fibre (ADF)	8.4	% d.b.	Feedipedia
Banana	Banana fruits, dried	Immature, without peel, dehydrated	Proximates	Acid Detergent Fibre (ADF)	4.8	% d.b.	Feedipedia

Banana	Banana leaves, dried	Dehydrated	Proximates	Acid Detergent Fibre (ADF)	40	% d.b.	Feedipedia
Banana	Banana stalks	Fresh	Proximates	Acid Detergent Fibre (ADF)	45.3	% d.b.	Feedipedia
Banana	Banana	Aerial part, fresh	Proximates	Acid Detergent Fibre (ADF)	31.5	% DM	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Proximates	Acid Detergent Fibre (ADF)	15.4	% d.b.	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Acid Detergent Fibre (ADF)	7.4	% d.b.	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Acid Detergent Fibre (ADF)	20.9	% d.b.	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Acid Detergent Fibre (ADF)	15.4	% DM	Feedipedia
Orange	Orange pulp, dried		Proximates	Acid Detergent Fibre (ADF)	14.9	% DM	Feedipedia
Orange	Orange pulp, dried	Mandarin	Proximates	Acid Detergent Fibre (ADF)	15.2	% DM	Feedipedia

Lemon	Lemon pulp, dried		Proximates	Acid Detergent Fibre (ADF)	14.3	% DM	Feedipedia
Orange	Orange pulp	Fresh	Proximates	Acid Detergent Fibre (ADF)	16.9	% DM	Feedipedia
Grapefruit	Grapefruit pulp	Fresh	Proximates	Acid Detergent Fibre (ADF)	12.8	% DM	Feedipedia
Orange	Orange pulp	Clementine, fresh	Proximates	Acid Detergent Fibre (ADF)	10.1	% DM	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Acid Detergent Fibre (ADF)	17.4	% DM	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Acid Detergent Fibre (ADF)	16.8	% DM	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Acid Detergent Fibre (ADF)	9.1	% d.b.	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Acid Detergent Fibre (ADF)	16.1	% d.b.	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Acid Detergent Fibre (ADF)	12.9	% d.b.	Feedipedia

Grapefruit	Grapefruit peel silage	Grapefruit	Proximates	Acid Detergent Fibre (ADF)	15	% d.b.	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Acid Detergent Fibre (ADF)	18.3	% d.b.	Feedipedia
Lime	Lime peel silage	Lime	Proximates	Acid Detergent Fibre (ADF)	21.9	% d.b.	Feedipedia
Coffee	Coffee hulls		Proximates	Acid Detergent Fibre (ADF)	51.4	% d.b.	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Acid Detergent Fibre (ADF)	46	% d.b.	Feedipedia
Coffee	Coffee parchment		Proximates	Acid Detergent Fibre (ADF)	74.1	% d.b.	Feedipedia
Coffee	Instant coffee by product		Proximates	Acid Detergent Fibre (ADF)	66.3	% d.b.	Feedipedia
Coffee	Coffee oil meal	By product of essential oil extraction	Proximates	Acid Detergent Fibre (ADF)	32.6	% d.b.	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Acid Detergent Fibre (ADF)	19.5	% d.b.	Feedipedia

Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Acid Detergent Fibre (ADF)	5.6	% d.b.	Feedipedia
Date	Date palm, pulp	Pulp, high ash, Phoenix dactylifera	Proximates	Acid Detergent Fibre (ADF)	34.3	% d.b.	Feedipedia
Date	Date palm leaves	Fresh	Proximates	Acid Detergent Fibre (ADF)	58.7	% d.b.	Feedipedia
Date	Date palm leaves, dried	Dry	Proximates	Acid Detergent Fibre (ADF)	59.8	% d.b.	Feedipedia
Date	Date palm pedicels		Proximates	Acid Detergent Fibre (ADF)	41.4	% d.b.	Feedipedia
Date	Date palm flower stems		Proximates	Acid Detergent Fibre (ADF)	57	% d.b.	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Acid Detergent Fibre (ADF)	54.7	% d.b.	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Acid Detergent Fibre (ADF)	42.8	% d.b.	Feedipedia
Grape	Grape pomace	Silage	Proximates	Acid Detergent Fibre (ADF)	53.3	% d.b.	Feedipedia

Melon	Melon seeds	Cucumis melo	Proximates	Acid Detergent Fibre (ADF)	26.7	% d.b.	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Acid Detergent Fibre (ADF)	20.9	% d.b.	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Acid Detergent Fibre (ADF)	20	% d.b.	Feedipedia
Tomatoes	Tomato plant	Fresh, whole plant	Proximates	Acid Detergent Fibre (ADF)	29.2	% d.b.	Feedipedia
Tomatoes	Tomato, leaves	Fresh	Proximates	Acid Detergent Fibre (ADF)	20.2	% d.b.	Feedipedia
Tomatoes	Tomato, stems	Fresh	Proximates	Acid Detergent Fibre (ADF)	34.7	% d.b.	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Acid Detergent Fibre (ADF)	8.8	% d.b.	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Acid Detergent Fibre (ADF)	12.4	% d.b.	Feedipedia
Potato	Potato peel	Fresh	Proximates	Acid Detergent Fibre (ADF)	13.3	% d.b.	Feedipedia

Potato	Potato	Tuber, raw	Proximates	Acid Detergent Fibre (ADF)	3.9	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Acid Detergent Fibre (ADF)	24.1	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Acid Detergent Fibre (ADF)	23.8	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Acid Detergent Fibre (ADF)	24.8	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Proximates	Acid Detergent Fibre (ADF)	25.2	% d.b.	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Acid Detergent Fibre (ADF)	12.7	% d.b.	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Proximates	Acid Detergent Fibre (ADF)	21	% d.b.	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Proximates	Acid Detergent Fibre (ADF)	25.1	% d.b.	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Acid Detergent Fibre (ADF)	31.7	% d.b.	Feedipedia

Potato	Sweet potato, aerial part, dried	Dry	Proximates	Acid Detergent Fibre (ADF)	32.2	% d.b.	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Acid Detergent Fibre (ADF)	5.2	% d.b.	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Acid Detergent Fibre (ADF)	4.8	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Acid Detergent Fibre (ADF)	24.1	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Acid Detergent Fibre (ADF)	58.4	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Acid Detergent Fibre (ADF)	53	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Urea-treated, dehydrated	Proximates	Acid Detergent Fibre (ADF)	64.9	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse	NaOH-treated, fresh	Proximates	Acid Detergent Fibre (ADF)	53.1	% d.b.	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Acid Detergent Fibre (ADF)	0.5	% d.b.	Feedipedia

Sugar cane	Sugar cane tops	Fresh	Proximates	Acid Detergent Fibre (ADF)	39.2	% d.b.	Feedipedia
Sugar cane	Sugar cane tops	Silage	Proximates	Acid Detergent Fibre (ADF)	40.3	% d.b.	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Acid Detergent Fibre (ADF)	45.5	% d.b.	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Proximates	Acid Detergent Fibre (ADF)	33.9	% d.b.	Feedipedia
Crab	Crab meal, dried	Dehydrated	Proximates	Acid Detergent Fibre (ADF)	13.3	% d.b.	Feedipedia
Crab	Crab meal	Fresh	Proximates	Acid Detergent Fibre (ADF)	22.8	% d.b.	Feedipedia
Poultry	Feather meal		Proximates	Acid Detergent Fibre (ADF)	6.5	% d.b.	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Acid Detergent Fibre (ADF)	43.9	% d.b.	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Acid Detergent Fibre (ADF)	25.9	% d.b.	Feedipedia

Shrimp	Shrimp waste	Fresh	Proximates	Acid Detergent Fibre (ADF)	28.3	% d.b.	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Acid Detergent Fibre (ADF)	21.4	% d.b.	Feedipedia
Snail	Snail meal	With shells	Proximates	Acid Detergent Fibre (ADF)	7.7	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Acid Detergent Fibre (ADF)	2.5	% d.b.	Feedipedia
Bakery	Bakery and viennoiserie by products		Proximates	Acid Detergent Fibre (ADF)	1.3	% DM	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Acid Detergent Fibre (ADF)	0	% d.b.	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Acid Detergent Fibre (ADF)	0	% d.b.	Feedipedia
Corn	Maize starch		Proximates	Acid Detergent Fibre (ADF)	0.7	% d.b.	Feedipedia
Cassava	Cassava starch		Proximates	Acid Detergent Fibre (ADF)	0.1	% d.b.	Feedipedia

Apple	Apple pomace	From juice making	Proximates	Acid Detergent Fibre (ADF)	419.2	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace	From puree making	Proximates	Acid Detergent Fibre (ADF)	315.3	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace		Proximates	Acid Detergent Fibre (ADF)	378	g/kg DM	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace

Grape	Grape pomace		Proximates	Acid Detergent Fibre (ADF)	523	g/kg DM	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace
Wheat	Wheat meal		Proximates	Acid Detergent Fibre (ADF)	4	g/kg DM	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Grape	Grape pomace	Skin and seeds, white grape	Proximates	Acid Detergent Fibre (ADF)	484	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants

Grape	Grape pomace	Skin and seeds, red grape	Proximates	Acid Detergent Fibre (ADF)	526	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape marc	Grape marc from Gonzlez-Byass	Proximates	Acid Detergent Fibre (ADF)	543	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc	Grape marc from Movialsa	Proximates	Acid Detergent Fibre (ADF)	480	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape vine shoot		Proximates	Acid Detergent Fibre (ADF)	518	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	White	Proximates	Acid Detergent Fibre (ADF)	174	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Red	Proximates	Acid Detergent Fibre (ADF)	149	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	Sherry	Proximates	Acid Detergent Fibre (ADF)	57.5	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc and lees		Proximates	Acid Detergent Fibre (ADF)	487	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Soy	Soybean meal	Soya bean	Proximates	Acid Detergent Fibre (ADF)	112	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed cake		Proximates	Acid Detergent Fibre (ADF)	197	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed hulls	Purified	Proximates	Acid Detergent Fibre (ADF)	258.9	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Acid Detergent Fibre (ADF)	540	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Acid Detergent Fibre (ADF)	333	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Acid Detergent Fibre (ADF)	136	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Acid Detergent Fibre (ADF)	140	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Grape	Grape seeds	White, Italian	Proximates	Acid Detergent Fibre (ADF)	495	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Red, Italian	Proximates	Acid Detergent Fibre (ADF)	514	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Californian	Proximates	Acid Detergent Fibre (ADF)	467	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Not ensiled	Proximates	Acid Detergent Fibre (ADF)	466	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Ensiled for 45 days	Proximates	Acid Detergent Fibre (ADF)	519	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	White, Italian	Proximates	Acid Detergent Fibre (ADF)	401	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Red, Italian	Proximates	Acid Detergent Fibre (ADF)	380	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Californian	Proximates	Acid Detergent Fibre (ADF)	312	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Not ensiled	Proximates	Acid Detergent Fibre (ADF)	343	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Ensiled for 45 days	Proximates	Acid Detergent Fibre (ADF)	386	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Orange	Orange	Fresh, whole	Proximates	Acid Detergent Fibre (ADF)	140	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Acid Detergent Fibre (ADF)	222	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Acid Detergent Fibre (ADF)	220	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp, dried		Proximates	Acid Detergent Fibre (ADF)	160	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Acid Detergent Fibre (ADF)	197	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange peel	Fresh	Proximates	Acid Detergent Fibre (ADF)	129	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange peel silage		Proximates	Acid Detergent Fibre (ADF)	170	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Fresh	Proximates	Acid Detergent Fibre (ADF)	150	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Acid Detergent Fibre (ADF)	169	g/kg DM	Citrus by-products as ruminant feeds: A review

Lemon	Lemon pulp	Fresh	Proximates	Acid Detergent Fibre (ADF)	168	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon, dried	Whole	Proximates	Acid Detergent Fibre (ADF)	257	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Acid Detergent Fibre (ADF)	101	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Acid Detergent Fibre (ADF)	105	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Acid Detergent Fibre (ADF)	120	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Acid Detergent Fibre (ADF)	301.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Acid Detergent Fibre (ADF)	294.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Acid Detergent Fibre (ADF)	228.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Acid Detergent Fibre (ADF)	233.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Acid Detergent Fibre (ADF)	235.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Acid Detergent Fibre (ADF)	252.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Acid Detergent Fibre (ADF)	277.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Acid Detergent Fibre (ADF)	269.7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Acid Detergent Fibre (ADF)	245.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Acid Detergent Fibre (ADF)	229.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Orange	Bergamot peel		Proximates	Acid Detergent Fibre (ADF)	73	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp	Fresh	Proximates	Acid Detergent Fibre (ADF)	168	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Mandarin, fresh	Proximates	Acid Detergent Fibre (ADF)	174	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp		Proximates	Acid Detergent Fibre (ADF)	160	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Acid Detergent Fibre (ADF)	230	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp silage		Proximates	Acid Detergent Fibre (ADF)	200	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus molasses		Proximates	Acid Detergent Fibre (ADF)	0	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp		Proximates	Acid Detergent Fibre (ADF)	130	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Proximates	Acid Detergent Fibre (ADF)	170	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Proximates	Acid Detergent Fibre (ADF)	200	g/kg DM	Citrus by-products as ruminant feeds: A review
Lime	Lime pulp, dried		Proximates	Acid Detergent Fibre (ADF)	220	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange		Proximates	Acid Detergent Fibre (ADF)	140	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp	Wet	Proximates	Acid Detergent Fibre (ADF)	160	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange by-product, dried		Proximates	Acid Detergent Fibre (ADF)	180	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Proximates	Acid Detergent Fibre (ADF)	170	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp silage		Proximates	Acid Detergent Fibre (ADF)	220	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Tangerine	Proximates	Acid Detergent Fibre (ADF)	140	g/kg DM	Citrus by-products as ruminant feeds: A review

Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Acid Detergent Fibre (ADF)	163	g/kg as is	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Canola	Juncea canola meal		Proximates	Acid Detergent Fibre (ADF)	134.5	g/kg as is	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Acid Detergent Fibre (ADF)	268	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Acid Detergent Fibre (ADF)	179	g/kg DM	Nutritive value of plantain and chicory for pigs

Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Proximates	Acid Detergent Fibre (ADF)	48.06	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Proximates	Acid Detergent Fibre (ADF)	44.05	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rape	Rape straw	490 fully ripe rape straw samples collected in China	Proximates	Acid Detergent Fibre (ADF)	52.04	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Proximates	Acid Detergent Fibre (ADF)	56.87	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Potato	Potato peel	A review of different publications	Proximates	Acid Detergent Fibre (ADF)	63.0	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	A review of different publications	Proximates	Acid Detergent Fibre (ADF)	262-342	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	Ensiled. A review of different publications	Proximates	Acid Detergent Fibre (ADF)	174-337	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production

Citrus, unspecified	Citrus pulp, dried		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	3.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Sugar beet	Sugar beet pulp		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	0.88	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	0.51	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Sugar beet	Sugar beet pulp		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	0.4	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	0.4	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	0.45	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Almond	Almond hulls		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	1.53	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	2.32	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	0.28	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Citrus, unspecified	Citrus pulp		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	0.29	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	0.42	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	1.23	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Bakery	Bakery waste		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	0.64	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	0.44	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	0.41	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Wheat	Wheat mill run		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	0.43	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	0.33	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	3.72	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	1.73	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	2.82	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	7.46	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Distillers grain	Distillers grain		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	9.3	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Acid Detergent Fibre Crude Protein (ADFCP)	11.97	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Grape	Grape marc	Grape marc from Gonzlez-Byass	Proximates	Acid detergent insoluble nitrogen	0.463	g/g total nitrogen	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape marc	Grape marc from Movialsa	Proximates	Acid detergent insoluble nitrogen	0.467	g/g total nitrogen	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape vine shoot		Proximates	Acid detergent insoluble nitrogen	0.403	g/g total nitrogen	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	White	Proximates	Acid detergent insoluble nitrogen	0.202	g/g total nitrogen	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	Red	Proximates	Acid detergent insoluble nitrogen	0.226	g/g total nitrogen	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Sherry	Proximates	Acid detergent insoluble nitrogen	0.091	g/g total nitrogen	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc and lees		Proximates	Acid detergent insoluble nitrogen	0.445	g/g total nitrogen	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape pomace	Deseeded, without stalk. Area of production: Alsace. Red and white grapes (Vitis vinifera)	Waste compounds	Acid insoluble fraction	53.55	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Aquitaine. Red and white grapes (Vitis vinifera)	Waste compounds	Acid insoluble fraction	57.41	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Beaujolais. Red and white grapes (Vitis vinifera)	Waste compounds	Acid insoluble fraction	54.1	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Bourgogne. Red and white grapes (Vitis vinifera)	Waste compounds	Acid insoluble fraction	47.21	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Champagne. Red and white grapes (Vitis vinifera)	Waste compounds	Acid insoluble fraction	58.08	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Languedoc. Red and white grapes (Vitis vinifera)	Waste compounds	Acid insoluble fraction	57.59	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Val de Loire. Red and white grapes (Vitis vinifera)	Waste compounds	Acid insoluble fraction	55.37	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Provence. Red and white grapes (Vitis vinifera)	Waste compounds	Acid insoluble fraction	53.52	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Waste compounds	Acid value	20.8	mg KOH/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Apple	Apple pomace		Undesirable components	Aerobic count, total	2.50E+03 / 2.00E+04	cfu/g	NOSHAN
Orange	Orange peel	Orange	Undesirable components	Aerobic count, total	380000	cfu/g	NOSHAN
Cheese	Whey	Milk	Undesirable components	Aerobic count, total	780000	cfu/g	NOSHAN

Hop	Hops		Undesirable components	Aerobic count, total	3000	cfu/g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Aerobic count, total	1700000000	cfu/g	NOSHAN
Grape	Grape pomace		Undesirable components	Aerobic count, total	720000	cfu/g	NOSHAN
Barley	Malted barley germs		Undesirable components	Aerobic count, total	1000000	cfu/g	NOSHAN
Mushrooms	Mushrooms		Undesirable components	Aerobic count, total	530000	cfu/g	NOSHAN
Onion	Onion	Slices, fresh	Undesirable components	Aerobic count, total	150000	cfu/g	NOSHAN
Rape	Rapeseed press cake		Undesirable components	Aerobic count, total	7000	cfu/g	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	Aerobic count, total	1500	cfu/g	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Undesirable components	Aerobic count, total	<100	cfu/g	NOSHAN
Tomatoes	Tomato skin		Undesirable components	Aerobic count, total	1800	cfu/g	NOSHAN
Apple	Apple	Whole	Undesirable components	Aerobic count, total	12000	cfu/g	NOSHAN
Pears	Pear	Whole	Undesirable components	Aerobic count, total	3200	cfu/g	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Aerobic count, total	7000000	cfu/g	NOSHAN

Apple	Apple pomace, dried	Powder	Undesirable components	Aflatoxin	0	ppb	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Undesirable components	Aflatoxin	0	ppb	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Undesirable components	Aflatoxin	0	ppb	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Undesirable components	Aflatoxin	0	ppb	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Cheese	Whey	Milk	Undesirable components	Aflatoxin M1	<0.1	µg/kg	NOSHAN
Hop	Hops		Undesirable components	Aflatoxin M1	<0.1	µg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Aflatoxin M1	<0.1	µg/kg	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Aflatoxin M1	<0.1	µg/kg	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Aflatoxin M1	<0.1	µg/kg	NOSHAN
Cheese	Cheese	Soft and hard	Undesirable components	Aflatoxin M1	<0.1	µg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Aflatoxin M1	<0.1	µg/kg	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Aflatoxin M1	<0.1	µg/kg	NOSHAN

Grape	Grape pomace, dried	Air dried	Flavonols	Aglycons	966	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Flavonols	Aglycons	843	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Flavonols	Aglycons	1114	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Apple	Apple pomace		Proximates	Alanine	2.4	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Alanine	4.04	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Alanine	4.04	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Alanine	6.65	mg/g dry matter	NOSHAN
Apple	Apple cake		Proximates	Alanine	1.13	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Alanine	22.3	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Alanine	10.41	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Alanine	8.78	mg/g dry matter	NOSHAN

Cheese	Cheese	Soft and hard	Proximates	Alanine	16.2	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Alanine	4.73	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Alanine	4.43	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Alanine	10.63	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Alanine	13.26	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Alanine	13.38	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Alanine	2.41	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Alanine	2.83	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Alanine	1.1	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Alanine	1.8	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Alanine	2.06	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Alanine	10.91	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Alanine	5.61	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Alanine	4.58	mg/g dry matter	NOSHAN

Tomatoes	Tomato skin		Proximates	Alanine	0.72	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Alanine	0.97	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Alanine	1.18	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Alanine	6.01	mg/g dry matter	NOSHAN
Rape	Rapeseed hulls	Purified	Proximates	Alanine	6.1	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Cabbage	Cabbage meal		Proximates	Alanine	6.3	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology
Orange	Orange pulp, dried		Proximates	Alanine	2.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Alanine	16.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Alanine	16.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Alanine	17.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Alanine	15.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Alanine	17.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Alanine	16.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Alanine	15.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Alanine	17.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Alanine	16.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rye	Seed residue		Proximates	Alanine	4.74	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Alanine	4.15	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Alanine	4.73	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Alanine	4.87	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Alanine	3.85	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Alanine	4.78	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Alanine	3.56	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Alanine	4.2	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Alanine	85.6	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Alanine	83.3	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Alanine	7.81	% protein	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Alanine	4.06	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Alanine	5.97	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Alanine	6.47	% protein	Chemical characterization of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Alanine	7.4	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Alanine	4.1	% protein	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Alanine	5.9	% protein	Feedipedia

Palm	Oil palm leaflets	Fresh	Proximates	Alanine	5.1	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Alanine	5.7	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Alanine	4.4	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Alanine	4.8	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Alanine	6.1	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Alanine	5.6	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Alanine	4.5	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Alanine	7.1	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Alanine	7.4	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Alanine	5.2	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Alanine	7.4	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Alanine	5.9	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Alanine	6.4	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Alanine	5.8	% protein	Feedipedia

Rice	Rice bran	Defatted, fibre <11%	Proximates	Alanine	6	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Alanine	5.7	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Alanine	6.2	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Alanine	7.5	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Alanine	8.9	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Alanine	9	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Alanine	8.7	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Alanine	8.6	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Alanine	8.8	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Alanine	8.8	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Alanine	4.6	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Alanine	3.8	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Alanine	3.6	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Alanine	5.2	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Alanine	3.6	% protein	Feedipedia

Wheat	Wheat grain	Durum	Proximates	Alanine	3.3	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Alanine	5.2	% protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Alanine	4	% protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Alanine	3.7	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Alanine	4.4	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Alanine	3.9	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Alanine	4	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Alanine	4	% protein	Feedipedia
Grape	Grape seeds		Proximates	Alanine	4.1	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Alanine	4.7	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Alanine	4.7	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Alanine	5.5	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Alanine	5.8	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Alanine	6.4	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Alanine	5.5	% protein	Feedipedia

Palm	Palm kernel meal	Mechanical extraction	Proximates	Alanine	4	% protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Alanine	4.2	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Alanine	7.7	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Alanine	4.1	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Alanine	4.9	% protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Alanine	4.4	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Alanine	4.4	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Alanine	4.2	% protein	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Alanine	3.8	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Alanine	0.4	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Alanine	4.3	% protein	Feedipedia

Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Alanine	4.6	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Alanine	4.3	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Alanine	4.7	% protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Alanine	3.5	% protein	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Alanine	3.9	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Alanine	4.6	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Alanine	4.4	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Alanine	4.9	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Alanine	4.2	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Alanine	4.4	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Alanine	4.3	% protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Alanine	4.3	% protein	Feedipedia

Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Alanine	4.3	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Alanine	4.2	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Alanine	4.3	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Alanine	4.2	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Alanine	4.3	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Alanine	4.3	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Alanine	4.3	% protein	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Alanine	4.4	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Alanine	5	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Alanine	5.2	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Alanine	4.6	% protein	Feedipedia

Orange	Orange pulp, dried		Proximates	Alanine	3.3	% protein	Feedipedia
Lemon	Lemon pulp, dried		Proximates	Alanine	3.3	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Alanine	3.5	% protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Alanine	4	% protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Alanine	4.5	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Alanine	3.7	% protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Alanine	5.7	% protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Alanine	4.6	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Alanine	2.3	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Alanine	1.8	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Alanine	5.2	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Alanine	3.6	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Alanine	5	% protein	Feedipedia

Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Alanine	4.3	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Alanine	5	% protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Alanine	5.6	% protein	Feedipedia
Potato	Sweet potato leaf protein concentrate		Proximates	Alanine	6.5	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Alanine	5.2	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Alanine	5	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Alanine	7.5	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Alanine	4.2	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Alanine	0.9	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Alanine	4.4	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Alanine	6.3	% protein	Feedipedia

Pork	Hog hair meal	Hydrolysed	Proximates	Alanine	4.5	% protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Alanine	7.9	% protein	Feedipedia
Poultry	Feather meal		Proximates	Alanine	4.6	% protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Alanine	6.1	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Alanine	6.3	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Alanine	6.2	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Alanine	8.1	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Alanine	5.6	% protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Alanine	5.1	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Alanine	10	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Alanine	10.4	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Alanine	7.6	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Alanine	7.3	% protein	Feedipedia

Poultry	Offal meal	Poultry	Proximates	Alanine	5.5	% protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Alanine	4.4	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Alanine	4.7	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Alanine	4.8	% protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Alanine	4.3	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Alanine	3.6	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Alanine	5.9	% protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Alanine	7	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Alanine	10.6	% protein	Feedipedia

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Alanine	1.06	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Alanine	18.3	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Alanine	13.8	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Alanine	4.11	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Alanine	3.95	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Alanine	3.95	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Canola	Canola meal	Average of analysed values	Proximates	Alanine	17.1	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Hop	Hops		Proximates	Alanine	1.34	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Alanine	4.19	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Alanine	0.49	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Alanine	0.56	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Alanine	0.21	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Alanine	0.41	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Alanine	0.28	mg/g DM	NOSHAN

Barley	Malted barley germs		Proximates	Alanine	0.79	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Alanine	2.73	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Alanine	0.22	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Alanine	0.08	mg/g DM	NOSHAN
Apple	Apple pomace		Proximates	Alanine	1.42	% D AA	NOSHAN
Orange	Orange peel	Orange	Proximates	Alanine	3.12	% D AA	NOSHAN
Cheese	Whey	Milk	Proximates	Alanine	5.27	% D AA	NOSHAN
Hop	Hops		Proximates	Alanine	16.14	% D AA	NOSHAN
Apple	Apple cake		Proximates	Alanine	1.94	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Alanine	1.71	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Alanine	5.91	% D AA	NOSHAN
Cabbage	Cabbage		Proximates	Alanine	1.96	% D AA	NOSHAN
Cheese	Cheese	Hard	Proximates	Alanine	3.77	% D AA	NOSHAN
Cheese	Cheese	Soft	Proximates	Alanine	0	% D AA	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Alanine	7	% D AA	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Alanine	4.33	% D AA	NOSHAN
Grape	Grape pomace		Proximates	Alanine	8.19	% D AA	NOSHAN
Barley	Malted barley germs		Proximates	Alanine	7.19	% D AA	NOSHAN

Barley	Malted barley germs		Proximates	Alanine	9.78	% D AA	NOSHAN
Mushrooms	Mushrooms		Proximates	Alanine	5.27	% D AA	NOSHAN
Olive	Olive pomace		Proximates	Alanine	3.31	% D AA	NOSHAN
Onion	Onion hulls		Proximates	Alanine	3.32	% D AA	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Alanine	4.7	% D AA	NOSHAN
Potato	Potato	Selected	Proximates	Alanine	3.47	% D AA	NOSHAN
Potato	Potato skin		Proximates	Alanine	8.19	% D AA	NOSHAN
Rape	Rapeseed press cake		Proximates	Alanine	2.69	% D AA	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Alanine	20.03	% D AA	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Alanine	3.43	% D AA	NOSHAN
Tomatoes	Tomato skin		Proximates	Alanine	2.72	% D AA	NOSHAN
Apple	Apple	Whole	Proximates	Alanine	2.6	% D AA	NOSHAN
Pears	Pear	Whole	Proximates	Alanine	3.85	% D AA	NOSHAN
Yoghurt	Yoghurt		Proximates	Alanine	6.59	% D AA	NOSHAN
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Alanine	8.6	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Alanine	7.41	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Alanine	7.39	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Alanine	9.27	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Alanine	8.12	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Alanine	6	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Tilapia	Tilapia filleting residue		Proximates	Alanine	8.81	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Alanine	8.92	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Alanine	7.63	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Alanine	17.7	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Alanine	9.2	g/kg DM	Nutritive value of plantain and chicory for pigs

Milk	Milk	Holstein Friesian cows, Spain	Proximates	Alanine	96.09	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Alanine	117.95	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Alanine	3.8	g/16g N	Feedipedia
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Albumin	38.4	% protein	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Albumin	60.6	% protein	Utilization of fruit and vegetable wastes, FAO

Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Albumin	62.4	% protein	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Albumin	54.3	% protein	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Albumin	38.4	% protein	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Albumin	78.1	% protein	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Proximates	Albumin	67.8	% protein	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Albumin	64.4	% protein	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Albumin	61.3	% protein	Utilization of fruit and vegetable wastes, FAO

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Alcohol	0.0	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Canola	Canola meal	Average of analysed values	Glucosinolates	Aliphatic glucosinolates, total	1.99	µmol/g DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Sugar by-products, unspecified	Wastewater	1h settled	Waste compounds	Alkalinity	1760	as CaCO3	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters

Grape	Grape seeds	White, Italian	Waste compounds	Alkaloids	15	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Red, Italian	Waste compounds	Alkaloids	13	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Californian	Waste compounds	Alkaloids	14	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Not ensiled	Waste compounds	Alkaloids	14	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Ensiled for 45 days	Waste compounds	Alkaloids	13	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	White, Italian	Waste compounds	Alkaloids	11	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Red, Italian	Waste compounds	Alkaloids	11	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Californian	Waste compounds	Alkaloids	9	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Not ensiled	Waste compounds	Alkaloids	11	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Ensiled for 45 days	Waste compounds	Alkaloids	9	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Canola	Juncea canola meal		Glucosinolates	Allyl	0.15	µmol/g	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Hop	Hops	Super Styrian Aurora	Waste compounds	Alpha-acid	7-9.5	%	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones
Hop	Hops	Hallertauer Magnum	Waste compounds	Alpha-acid	11-16	%	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones

Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Aluminium	281.4	mg/kg d.m	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Aluminium	1836	mg/kg d.m	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Aluminium	1463	mg/kg d.m	ECN Phyllis 2
Straw	Straw		Inorganics	Aluminium	143	mg/kg d.m	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Aluminium	11763.3	mg/kg d.m	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Aluminium	15637.5	mg/kg d.m	ECN Phyllis 2
Nuts, unspecified	Nut kernels	Almond. Country: Spain	Inorganics	Aluminium	107	mg/kg d.m	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Aluminium	270	mg/kg d.m	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Aluminium	1000	mg/kg d.m	ECN Phyllis 2
Olive	Olive cake		Inorganics	Aluminium	2700	mg/kg d.m	ECN Phyllis 2

Olive	Olive pits	Pitten. Country: Spain	Inorganics	Aluminium	193.5	mg/kg d.m	ECN Phyllis 2
Olive	Olive residue		Inorganics	Aluminium	1066.8	mg/kg d.m	ECN Phyllis 2
Olive	Olive residue	Sample lot size: 60kg. Country: Spain	Inorganics	Aluminium	2350.2	mg/kg d.m	ECN Phyllis 2
Olive	Olive residue		Inorganics	Aluminium	1200	mg/kg d.m	ECN Phyllis 2
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Aluminium	833	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Aluminium	958	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace		Inorganics	Aluminium	15.55	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Aluminium	19.1	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Aluminium	4.2	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Aluminium	79.6	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Aluminium	15.5	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Aluminium	214.83	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Aluminium	37.49	ppm d.b.	NOSHAN

Cabbage	Cabbage		Inorganics	Aluminium	206.71	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Aluminium	7.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Aluminium	5.39	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Aluminium	5.7	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Aluminium	238.1	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Aluminium	255.15	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Aluminium	31.6	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Aluminium	404	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Aluminium	238.09	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Aluminium	1992.7	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Aluminium	11.7	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Aluminium	122	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Aluminium	4.5	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Aluminium	139.29	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Aluminium	416.6	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Aluminium	10.5	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Aluminium	14.6	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Aluminium	31.8	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Aluminium	<0.1	ppm d.b.	NOSHAN

Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Inorganics	Aluminium	278.44	mg/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Aluminium	50	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Aluminium	63	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Aluminium	26	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Aluminium	32	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Rice	Rice husk	Before soaking pre-treatment	Inorganics	Aluminium oxide (Al2O3)	0.58	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Rice	Rice husk, dried	Soaked rice husks, dried	Inorganics	Aluminium oxide (Al2O3)	0.2	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Sugar beet	Sugar beet		Inorganics	Aluminium oxide (Al2O3)	2.5	% ash	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Aluminium oxide (Al2O3)	0.90	% ash	ECN Phyllis 2
Bean	Bean plant		Inorganics	Aluminium oxide (Al2O3)	0.5	% ash	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Aluminium oxide (Al2O3)	1.3	% ash	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Aluminium oxide (Al2O3)	0.53	% ash	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Aluminium oxide (Al2O3)	0.38	% ash	ECN Phyllis 2

Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Aluminium oxide (Al2O3)	0.35	% ash	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Aluminium oxide (Al2O3)	0.22	% ash	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Aluminium oxide (Al2O3)	1.26	% ash	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Aluminium oxide (Al2O3)	0.26	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Aluminium oxide (Al2O3)	1.33	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Aluminium oxide (Al2O3)	2.7	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Aluminium oxide (Al2O3)	2.7	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Aluminium oxide (Al2O3)	0.49	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Aluminium oxide (Al2O3)	1.5	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Aluminium oxide (Al2O3)	2.09	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Aluminium oxide (Al2O3)	1.38	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Aluminium oxide (Al2O3)	1.3	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Aluminium oxide (Al2O3)	2.72	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Aluminium oxide (Al2O3)	2.85	% ash	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Aluminium oxide (Al2O3)	2.6	% ash	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Aluminium oxide (Al2O3)	8.8	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Aluminium oxide (Al2O3)	3.1	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Aluminium oxide (Al2O3)	10.42	% ash	ECN Phyllis 2
Olive	Olive		Inorganics	Aluminium oxide (Al2O3)	5.3	% ash	ECN Phyllis 2

Olive	Olive		Inorganics	Aluminium oxide (Al2O3)	6.4	% ash	ECN Phyllis 2
Olive	Olive cake		Inorganics	Aluminium oxide (Al2O3)	4.6	% ash	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Aluminium oxide (Al2O3)	8.4	% ash	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Aluminium oxide (Al2O3)	8.84	% ash	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Aluminium oxide (Al2O3)	4.29	% ash	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Aluminium oxide (Al2O3)	0.89	% ash	ECN Phyllis 2

Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Aluminium oxide (Al2O3)	3.6	% ash	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Aluminium oxide (Al2O3)	2.52	% ash	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Aluminium oxide (Al2O3)	3.7	% ash	ECN Phyllis 2

Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Aluminium oxide (Al2O3)	6.03	% ash	ECN Phyllis 2
Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Aluminium oxide (Al2O3)	0.62	% ash	ECN Phyllis 2

Olive	Orujillo	Wood matter from pressed oil stone	Inorganics	Aluminium oxide (Al2O3)	2.5	% ash	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Aluminium oxide (Al2O3)	3.9	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Aluminium oxide (Al2O3)	1.45	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Aluminium oxide (Al2O3)	2.17	% ash	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Aluminium oxide (Al2O3)	0.09	% ash	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Inorganics	Aluminium oxide (Al2O3)	0.6	% ash	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Aluminium oxide (Al2O3)	1.5	% ash	ECN Phyllis 2
Rice	Rice husk	Ash	Inorganics	Aluminium oxide (Al2O3)	0.606	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash

Rice	Rice husk	Silica powder	Inorganics	Aluminium oxide (Al2O3)	0.0022	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Aluminium oxide (Al2O3)	1.7	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Aluminium oxide (Al2O3)	0.67	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Aluminium oxide (Al2O3)	0.69	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Aluminium oxide (Al2O3)	1.6	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Aluminium oxide (Al2O3)	2.1	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Aluminium oxide (Al2O3)	0.97	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Aluminium oxide (Al2O3)	2.3	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Aluminium oxide (Al2O3)	0.65	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Aluminium oxide (Al2O3)	4.8	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Aluminium oxide (Al2O3)	2.6	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Aluminium oxide (Al2O3)	0.44	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Aluminium oxide (Al2O3)	1.5	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Aluminium oxide (Al2O3)	2.4	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Aluminium oxide (Al2O3)	0.88	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk, dried	Powder	Inorganics	Aluminium oxide (Al2O3)	0.084	% mass fraction	Development of photoluminescent glass derived from rice husk

Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Amino acids, free	0.13	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Amino acids, free	0.73	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Amino acids, free	1.16	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Hop	Hops		Proximates	Amino acids, free	44.32	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Amino acids, free	25.54	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Amino acids, free	11.74	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Amino acids, free	29.88	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Amino acids, free	6.15	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Amino acids, free	19.77	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Amino acids, free	4.24	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Amino acids, free	20.59	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Amino acids, free	18.91	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Amino acids, free	8.22	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Amino acids, free	1.7	mg/g dry matter	NOSHAN
Apple	Apple pomace		Proximates	Amino acids, total	32.72	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Amino acids, total	84.06	mg/g dry matter	NOSHAN

Cheese	Whey	Milk	Proximates	Amino acids, total	90.2	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Amino acids, total	162.63	mg/g dry matter	NOSHAN
Canola	Canola meal		Proximates	Amino acids, total	362	mg/g dry matter	A comparative study on amino acid availability of moist heated canla meal for poultry vs. ruminants
Apple	Apple cake		Proximates	Amino acids, total	19.46	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Amino acids, total	299.67	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Amino acids, total	238.27	mg/g dry matter	NOSHAN
Cabbage	Cabbage		Proximates	Amino acids, total	55.57	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Amino acids, total	410.77	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Amino acids, total	326.54	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Amino acids, total	601.75	mg/g dry matter	NOSHAN

Cucumber	Cucumber	Sour	Proximates	Amino acids, total	87.72	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Amino acids, total	74.06	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Amino acids, total	180.08	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Amino acids, total	213.93	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Amino acids, total	261.47	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Amino acids, total	38.9	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Amino acids, total	50.01	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Amino acids, total	17.24	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Amino acids, total	52.62	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Amino acids, total	51.08	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Amino acids, total	222.67	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Amino acids, total	50.65	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Amino acids, total	75.51	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Amino acids, total	25.1	mg/g dry matter	NOSHAN

Apple	Apple	Whole	Proximates	Amino acids, total	17.63	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Amino acids, total	23.69	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Amino acids, total	194.99	mg/g dry matter	NOSHAN
Canola	Juncea canola meal		Proximates	Amino acids, total	348.2	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Amino acids, total	291.1	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Ammonia nitrogen	93-187	mg %	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Ammonia nitrogen	60-120	mg %	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Ammonia nitrogen	27-49	mg %	Chemical characterization of tomato pomace
Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Proximates	Ammonia nitrogen	1149.67	mg/kg	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Proximates	Ammonia nitrogen	1149.67	mg/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK
Food, unspecified	Food leftovers	Domestic food waste from Ludlow, UK	Proximates	Ammonia nitrogen	0.34	g/kg	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment

Food, unspecified	Food leftovers	Autoclaved (160C, 6.2 bars) domestic food waste from Ludlow, UK	Proximates	Ammonia nitrogen	0.42	g/kg	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment
Fish, unspecified	Fish	Raw, fresh	Waste compounds	Ammonia nitrogen (NH3-N)	0.12	g/16g N	Alternate protein sources for salmon and trout diets
Fish, unspecified	Fish	Raw, moderately fresh	Waste compounds	Ammonia nitrogen (NH3-N)	0.16	g/16g N	Alternate protein sources for salmon and trout diets
Fish, unspecified	Fish	Raw, stale	Waste compounds	Ammonia nitrogen (NH3-N)	0.18	g/16g N	Alternate protein sources for salmon and trout diets

Abattoir wastes, unspecified	Abattoir raw effluent		Waste compounds	Ammonia nitrogen (NH3-N)	589	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Waste compounds	Ammonia nitrogen (NH3-N)	186	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Waste compounds	Ammonia nitrogen (NH3-N)	249	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Waste compounds	Ammonia nitrogen (NH3-N)	114	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Waste compounds	Ammonia nitrogen (NH3-N)	206	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Waste compounds	Ammonia nitrogen (NH3-N)	64	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Waste compounds	Ammonia nitrogen (NH3-N)	71	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Waste compounds	Ammonia nitrogen (NH3-N)	65	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Waste compounds	Ammonia nitrogen (NH3-N)	49	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Waste compounds	Ammonia nitrogen (NH3-N)	11	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Waste compounds	Ammonia nitrogen (NH3-N)	15	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Waste compounds	Ammonia nitrogen (NH3-N)	9	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Slaughterhouse wastewater		Waste compounds	Ammonia nitrogen (NH3-N)	200-300	mg/l	Anaerobic treatment of slaughterhouse waste and wastewater
Bamboo	Bamboo shoot shells	Ensiled	Waste compounds	Ammonia nitrogen (NH3-N)	141	g/kg total nitrogen	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Sugar beet	Sugar beet tops	Beta vulgaris, harvest time: October	Proximates	Ammonium nitrogen (NH4-N)	0.9	% N total	Cropgen database
Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Proximates	Ammonium nitrogen (NH4-N)	169	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Proximates	Ammonium nitrogen (NH4-N)	3006	mg/kg DM	Composted slaughterhouse waste as organic fertilizer

Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Proximates	Ammonium nitrogen (NH4-N)	941	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Proximates	Ammonium nitrogen (NH4-N)	882	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Proximates	Ammonium nitrogen (NH4-N)	167	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Beef	Solid cattle slaughterhouse wastes		Proximates	Ammonium nitrogen (NH4-N)	1.4	g/kg	Anaerobic co-digestion of solid slaughterhouse wastes with agro-residues: Synergistic and antagonistic interactions determined in batch digestion assays

Beef	Solid cattle slaughterhouse wastes		Proximates	Ammonium nitrogen (NH4-N)	0.059	g/L	Anaerobic co-digestion of solid slaughterhouse wastes with agro-residues: Synergistic and antagonistic interactions determined in batch digestion assays
Poultry	Poultry manure, dried	878 layer manure samples collected in China	Proximates	Ammonium nitrogen (NH4-N)	10.57	g/kg DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Grape	Grape pomace, dried	Air dried	Anthocyanins	Anthocyanins, caffeoylated	1450	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Anthocyanins	Anthocyanins, caffeoylated	1079	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Anthocyanins	Anthocyanins, caffeoylated	1165	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Air dried	Anthocyanins	Anthocyanins, coumaroylated	9270	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Anthocyanins	Anthocyanins, coumaroylated	6261	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Anthocyanins	Anthocyanins, coumaroylated	7952	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Anthocyanins	Anthocyanins, monomeric	0.87	mg Mal-3-glu/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Anthocyanins	Anthocyanins, monomeric	1.3	mg Mal-3-glu/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Anthocyanins	Anthocyanins, monomeric	0.28	mg Mal-3-glu/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape pomace, dried	Air dried	Anthocyanins	Anthocyanins, total	34188	ppm dry extract	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Anthocyanins	Anthocyanins, total	24120	ppm dry extract	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Anthocyanins	Anthocyanins, total	31312	ppm dry extract	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape seeds	White, Italian	Anthocyanins	Anthocyanins, total	3	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Red, Italian	Anthocyanins	Anthocyanins, total	99	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Californian	Anthocyanins	Anthocyanins, total	85	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Not ensiled	Anthocyanins	Anthocyanins, total	103	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Ensiled for 45 days	Anthocyanins	Anthocyanins, total	21	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	White, Italian	Anthocyanins	Anthocyanins, total	6	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Red, Italian	Anthocyanins	Anthocyanins, total	44	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Californian	Anthocyanins	Anthocyanins, total	34	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Not ensiled	Anthocyanins	Anthocyanins, total	45	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Ensiled for 45 days	Anthocyanins	Anthocyanins, total	10	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Poultry	Hatchery waste		Inorganics	Antimony	<0.5	mg/kg	Composition of Australian meat chicken hatchery waste

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Antimony	8	mg/kg DM	ECN Phyllis 2
Apple	Apple pomace		Inorganics	Antimony	<0.1	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Antimony	<0.01	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Antimony	0.5	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Antimony	<0.01	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Antimony	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Antimony	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Antimony	<0.1	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Antimony	<0.01	ppm d.b.	NOSHAN

Cheese	Cheese	Hard	Inorganics	Antimony	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Antimony	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Antimony	0.07	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Antimony	0.02	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Antimony	<0.01	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Antimony	<0.01	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Antimony	<0.01	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Antimony	0.07	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Antimony	<0.01	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Antimony	<0.01	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Antimony	<0.01	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Antimony	18.47	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Antimony	<0.1	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Antimony	0.2	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Antimony	<0.01	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Antimony	0.53	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Antimony	0.96	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Antimony	0.08	ppm d.b.	NOSHAN

Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Antimony	10.8	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Antimony	3.3	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Antimony	20	mg/kg DM	ECN Phyllis 2
Soy	Soybeans	Toasted	Waste compounds	Antitrypsic activity	6.88	TIU/mg DM	Feedipedia
Soy	Soybeans	Extruded	Waste compounds	Antitrypsic activity	7.98	TIU/mg DM	Feedipedia
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Apparent total tract digestibility of gross energy	0.596	N/A	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Apparent total tract digestibility of gross energy	0.638	N/A	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Apparent total tract digestibility of gross energy	0.724	N/A	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Apparent total tract digestibility of gross energy	0.728	N/A	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Apparent total tract digestibility of gross energy	0.71	N/A	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Apparent total tract digestibility of gross energy	0.692	N/A	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Apparent total tract digestibility of gross energy	0.7	N/A	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Apparent total tract digestibility of gross energy	0.682	N/A	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Apparent total tract digestibility of gross energy	0.688	N/A	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Apparent total tract digestibility of gross energy	0.711	N/A	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Grape	Grape seeds	White, Italian	Proximates	Aqueous fraction (lectins + polypeptides + starch)	56	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Red, Italian	Proximates	Aqueous fraction (lectins + polypeptides + starch)	59	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Californian	Proximates	Aqueous fraction (lectins + polypeptides + starch)	72	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Not ensiled	Proximates	Aqueous fraction (lectins + polypeptides + starch)	67	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Ensiled for 45 days	Proximates	Aqueous fraction (lectins + polypeptides + starch)	58	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	White, Italian	Proximates	Aqueous fraction (lectins + polypeptides + starch)	22	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Red, Italian	Proximates	Aqueous fraction (lectins + polypeptides + starch)	44	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Californian	Proximates	Aqueous fraction (lectins + polypeptides + starch)	28	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Not ensiled	Proximates	Aqueous fraction (lectins + polypeptides + starch)	36	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Ensiled for 45 days	Proximates	Aqueous fraction (lectins + polypeptides + starch)	26	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Sugar by-products, unspecified	Bagasse		Proximates	Arabinan	1.8	wt%, dry basis	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Proximates	Arabinan	3.5	wt%, dry basis	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Olive	Olive tree pruning	Biomass	Proximates	Arabinan	3.9	wt%, dry basis	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass

Sugar cane	Sugar cane bagasse		Proximates	Arabinan	1.5	wt%, dry basis	Combined ethanol and methane production using steam pretreated sugarcane bagasse
Sugar by-products, unspecified	Bagasse		Proximates	Arabinan	2.4	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; end pressure MPa: 0.5	Proximates	Arabinan	1	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; O2 pressure MPa: 0.6; end pressure MPa: 1.0	Proximates	Arabinan	1.1	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; end pressure MPa: 0.7	Proximates	Arabinan	0.9	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; O2 pressure MPa: 0.6; end pressure MPa: 1.7	Proximates	Arabinan	0.5	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; end pressure MPa: 1.1	Proximates	Arabinan	0.4	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; O2 pressure MPa: 0.6; end pressure MPa: 1.9	Proximates	Arabinan	0.4	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; end pressure MPa: 1.4	Proximates	Arabinan	0.3	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; O2 pressure MPa: 0.6; end pressure MPa: 2.2	Proximates	Arabinan	0.1	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Banana	Banana pintoza		Proximates	Arabinan	3.85	wt%, dry basis	ECN Phyllis 2
Hop	Hops		Proximates	Arabinan	0.7	wt%, dry basis	ECN Phyllis 2
Hop	Hops	Bast	Proximates	Arabinan	1.2	wt%, dry basis	ECN Phyllis 2
Pineapple	Pineapple		Proximates	Arabinan	0.9	wt%, dry basis	ECN Phyllis 2

Potato	Potato mash		Proximates	Arabinan	0.51	wt%, dry basis	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Proximates	Arabinan	0	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Arabinan	0.9	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Arabinan	0.7	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Arabinan	0.6	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Arabinan	0.5	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Arabinan	0.05	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Arabinan	2.8	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Arabinan	3	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Arabinan	1	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Arabinan	3.8	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Arabinan	3.4	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Arabinan	1.6	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Arabinan	3.3	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut shell	Charcoal yield 41.4% at 1 MPa, fixed-C yield 30.1%	Proximates	Arabinan	0	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Arabinan	0.29	wt%, dry basis	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Arabinan	8.7	wt%, dry basis	ECN Phyllis 2

Nuts, unspecified	Nut shells	Kukui. Charcoal yield 58.6% at 1 MPa, fixed-C yield 41.4%	Proximates	Arabinan	0	wt%, dry basis	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Proximates	Arabinan	0	wt%, dry basis	ECN Phyllis 2
Potato	Potato fibres	Pressed	Proximates	Arabinose	100	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Arabinose	37	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Buffer insoluble solids		Proximates	Arabinose	40	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Supernatant from pressed potato fibre		Proximates	Arabinose	52	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Arabinose	59	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Arabinose	84	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Arabinose	36	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Pears	Pear pomace		Proximates	Arabinose	56.8	Relative mass percentage of neutral sugar (g/kg total sugar)	Comparative study of alkaline extraction process of hemicelluloses from pear pomace
Apple	Pectin	Extracted, apple	Proximates	Arabinose	0.49	% w/w d.b	Pectin from apple pomace: extraction, characterization and utilization
Palm	Palm empty fruit bunches	Oil palm empty fruit bunches before hydrothermal pretreatment	Proximates	Arabinose	2	% w/w d.b	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion

Palm	Palm empty fruit bunches	Oil palm empty fruit bunches fibres after hydrothermal pretreatment	Proximates	Arabinose	0	% w/w d.b	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion
Wheat	Wheat bran extract	High starch. Origin of glucose is mainly starch	Proximates	Arabinose	5.1	% DM	Comparison of two wheat bran extracts in the sheet extrusion process
Wheat	Wheat bran extract	High protein	Proximates	Arabinose	5.7	% DM	Comparison of two wheat bran extracts in the sheet extrusion process
Olive	Isolated lignin from olive tree pruning	By organosolv pretreatment	Proximates	Arabinose	0.09	%	Biorefining of olive tree (Olea europea) pruning

Grape	Grape stalks		Proximates	Arabinose	5.5	%	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Orange	Orange pulp, dried		Proximates	Arabinose	68	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Arabinose	62	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Arabinose	57	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Arabinose	49	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Grape	Grape pomace	Deseeded, without stalk. Area of production: Alsace. Red and white grapes (Vitis vinifera)	Proximates	Arabinose	1.49	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Aquitaine. Red and white grapes (Vitis vinifera)	Proximates	Arabinose	2.21	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Beaujolais. Red and white grapes (Vitis vinifera)	Proximates	Arabinose	0.68	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Bourgogne. Red and white grapes (Vitis vinifera)	Proximates	Arabinose	1.52	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Champagne. Red and white grapes (Vitis vinifera)	Proximates	Arabinose	1.7	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Languedoc. Red and white grapes (Vitis vinifera)	Proximates	Arabinose	0.38	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Val de Loire. Red and white grapes (Vitis vinifera)	Proximates	Arabinose	0.97	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Provence. Red and white grapes (Vitis vinifera)	Proximates	Arabinose	1.28	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Potato	Potato fibres	Pressed	Proximates	Arabinose	8	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Arabinose	7	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Buffer insoluble solids		Proximates	Arabinose	5	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Supernatant from pressed potato fibre		Proximates	Arabinose	12	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Arabinose	6	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Arabinose	8	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Arabinose	8	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Proximates	Arabinose	0.08	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Proximates	Arabinose	0	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Proximates	Arabinose	0.04	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Proximates	Arabinose	0.13	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Apple	Apple pomace		Proximates	Arabinose	73	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Orange	Orange peel	Orange	Proximates	Arabinose	136	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Hop	Hops		Proximates	Arabinose	43	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple cake		Proximates	Arabinose	58	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage		Proximates	Arabinose	54	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Cucumber	Cucumber	Sour	Proximates	Arabinose	19	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Grape	Grape pomace		Proximates	Arabinose	12	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Olive	Olive pomace		Proximates	Arabinose	159	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Onion	Onion hulls		Proximates	Arabinose	14	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Rape	Rapeseed press cake		Proximates	Arabinose	77.87	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Cabbage	Cabbage	Sour	Proximates	Arabinose	145	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Arabinose	298	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Tomatoes	Tomato skin		Proximates	Arabinose	19	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple	Whole	Proximates	Arabinose	79	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Pears	Pear	Whole	Proximates	Arabinose	64	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Apple	Apple pomace		Proximates	Arabinose	67.2	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Orange	Orange peel	Orange	Proximates	Arabinose	266	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Hop	Hops		Proximates	Arabinose	35	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Apple	Apple cake		Proximates	Arabinose	84.7	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage		Proximates	Arabinose	195	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Cucumber	Cucumber	Sour	Proximates	Arabinose	35	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Grape	Grape pomace		Proximates	Arabinose	15	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Olive	Olive pomace		Proximates	Arabinose	220	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Onion	Onion hulls		Proximates	Arabinose	13	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Rape	Rapeseed press cake		Proximates	Arabinose	70.31	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Cabbage	Cabbage	Sour	Proximates	Arabinose	195	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Arabinose	266	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Tomatoes	Tomato skin		Proximates	Arabinose	29	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Apple	Apple	Whole	Proximates	Arabinose	88	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Pears	Pear	Whole	Proximates	Arabinose	99	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Palm	Palm empty fruit bunches	Oil palm empty fruit bunches before hydrothermal pretreatment	Proximates	Arabinose	2	% w/w	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion
Palm	Palm empty fruit bunches	Oil palm empty fruit bunches fibres after hydrothermal pretreatment	Proximates	Arabinose	0	% w/w	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion
Sugar beet	Sugar beet molasses	From pulp	Proximates	Arabinose	67	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet pulp		Proximates	Arabinose	85	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Arabinose	19	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Carrot	Carrot		Proximates	Arabinose	17	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Rye	Seed residue		Proximates	Arabinose	34	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Arabinose	45	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Arabinose	86	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Arabinose	16	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Arabinose	39	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Arabinose	201	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Arabinose	29	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Arabinose	28	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet molasses	From pulp	Proximates	Arabinose	59	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Arabinose	92	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Arabinose	10	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients

Carrot	Carrot		Proximates	Arabinose	4	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Arabinose	0.43	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Arabinose	0.34	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Arabinose	0.76	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Proximates	Arabinose	0.75	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Arabinose	0.58	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Arabinose	0.07	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Arabinose	0.11	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Arabinose	0.07	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Arabinose	0.13	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Arabinose	0.16	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Olive	Olive tree pruning		Proximates	Arabinose	2.4	%	Biorefining of olive tree (Olea europea) pruning
Olive	Olive tree pruning	Solid fraction from organosolv pretreatment	Proximates	Arabinose	0.09	%	Biorefining of olive tree (Olea europea) pruning
Olive	Olive tree pruning	Solid fraction after bioethanol production	Proximates	Arabinose	0	%	Biorefining of olive tree (Olea europea) pruning

Distillers grain	Distillers grain	Corn, with solubles	Proximates	Arabinose, soluble	7	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Arabinose, soluble	17	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Arabinose, soluble	14	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Arabinose-to-xylose ratio (A/X ratio)	0.8	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Arabinose-to-xylose ratio (A/X ratio)	0.66	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Arabinose-to-xylose ratio (A/X ratio)	0.63	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Wheat	Wheat bran extract	High starch. Origin of glucose is mainly starch	Proximates	Arabinose/xylose	0.46	% DM	Comparison of two wheat bran extracts in the sheet extrusion process

Wheat	Wheat bran extract	High protein	Proximates	Arabinose/xylose	0.5	% DM	Comparison of two wheat bran extracts in the sheet extrusion process
Wheat	Wheat bran		Proximates	Arabinoxylan	30	%	Comparison of two wheat bran extracts in the sheet extrusion process
Apple	Apple pomace		Proximates	Arginine	1.52	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Arginine	6.39	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Arginine	2.75	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Arginine	20.54	mg/g dry matter	NOSHAN
Canola	Canola meal		Proximates	Arginine	20	mg/g dry matter	A comparative study on amino acid availability of moist heated canla meal for poultry vs. ruminants
Apple	Apple cake		Proximates	Arginine	0.9	mg/g dry matter	NOSHAN

Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Arginine	16.71	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Arginine	12.12	mg/g dry matter	NOSHAN
Cabbage	Cabbage		Proximates	Arginine	5.3	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Arginine	13.85	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Arginine	11.55	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Arginine	5.35	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Arginine	4.67	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Arginine	10.23	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Arginine	12.46	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Arginine	12.29	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Arginine	2.48	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Arginine	3.78	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Arginine	0.73	mg/g dry matter	NOSHAN

Potato	Potato	Selected	Proximates	Arginine	2.49	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Arginine	2.17	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Arginine	13.59	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Arginine	1.32	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Arginine	3.11	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Arginine	1.32	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Arginine	0.41	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Arginine	0.74	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Arginine	4.31	mg/g dry matter	NOSHAN
Canola	Canola meal	Average of analysed values	Proximates	Arginine	22.7	g/kg dry matter	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities

Rape	Rapeseed hulls	Purified	Proximates	Arginine	6.8	g/kg dry matter	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Fish, unspecified	Fish meal		Proximates	Arginine	42.9	g/kg dry matter	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Arginine	35.2	g/kg dry matter	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Arginine	46.5	g/kg dry matter	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Arginine	20.1	g/kg dry matter	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Arginine	50.2	g/kg dry matter	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Cabbage	Cabbage meal		Proximates	Arginine	3.5	g/kg dry matter	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Citrus, unspecified	Citrus meal, dried		Proximates	Arginine	3.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Arginine	2.34	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Arginine	2.7	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Arginine	2.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Arginine	21.7	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Arginine	20.3	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Arginine	19.4	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Arginine	22.9	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Arginine	21.9	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Arginine	24.5	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Arginine	18.9	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Arginine	22.3	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Arginine	23	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Arginine	22.8	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Citrus, unspecified	Citrus pulp, dried		Proximates	Arginine	2.5	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Arginine	12.2	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Arginine	15.4	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Canola	Juncea canola meal		Proximates	Arginine	25.3	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Rye	Seed residue		Proximates	Arginine	4.39	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Arginine	6.48	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Arginine	5.11	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Arginine	5.45	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Arginine	2.96	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Sugar beet	Sugar beet pulp		Proximates	Arginine	4.42	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Arginine	4.78	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Arginine	5.03	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Distillery by-products, unspecified	Distillers solids		Proximates	Arginine	45	g/160g nitrogen	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Barley	Barley		Proximates	Arginine	55	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Soy	Soybean meal	Soyabean meal	Proximates	Arginine	72	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Arginine	45	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs

Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Arginine	77.4	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Arginine	111	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Arginine	2.62	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Arginine	2.37	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Arginine	2.32	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Arginine	6.32	% protein	Chemical characterization of tomato pomace

Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Arginine	5.93	% protein	Chemical characterizatio n of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Arginine	6.29	% protein	Chemical characterizatio n of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Arginine	7.05	% protein	Chemical characterizatio n of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Arginine	4	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Arginine	5.2	% protein	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Arginine	4	% protein	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Arginine	4	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Arginine	4.2	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Arginine	5.1	% protein	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Arginine	4.1	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Arginine	8.7	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Arginine	7.8	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Arginine	4.1	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Arginine	4.3	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Arginine	3.4	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Arginine	4	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Arginine	3.4	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Arginine	7.7	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Arginine	6.6	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Arginine	7.2	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Arginine	7	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Arginine	6.2	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Arginine	7.4	% protein	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Arginine	6.5	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Arginine	4.3	% protein	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Arginine	1.7	% protein	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Arginine	2.1	% protein	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Arginine	4.7	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Arginine	4	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Arginine	4.2	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Arginine	3.9	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Arginine	3.6	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Arginine	3.5	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Arginine	6.8	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Arginine	4	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Arginine	4.4	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Arginine	6.9	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Arginine	4.7	% protein	Feedipedia

Wheat	Wheat grain	Durum	Proximates	Arginine	5	% protein	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Arginine	9.9	% protein	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Arginine	10	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Arginine	3.2	% protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Arginine	10.7	% protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Arginine	2.9	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Arginine	11	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Arginine	11.1	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Arginine	10.3	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Arginine	10.4	% protein	Feedipedia
Grape	Grape seeds		Proximates	Arginine	7.2	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Arginine	9.6	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Arginine	9.9	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Arginine	6.4	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Arginine	6.2	% protein	Feedipedia

Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Arginine	5.9	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Arginine	6.7	% protein	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Arginine	7.6	% protein	Feedipedia
Palm	Oil palm kernels		Proximates	Arginine	3.9	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Arginine	12.7	% protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Arginine	12.6	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Arginine	4.3	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Arginine	4.1	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Arginine	5.6	% protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Arginine	3	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Arginine	11.2	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Arginine	12.6	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Arginine	12	% protein	Feedipedia

Nuts, unspecified	Nut skins	Peanut	Proximates	Arginine	8	% protein	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Arginine	8.3	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Arginine	1.7	% protein	Feedipedia
Pumpkin	Pumpkin seeds	Cucurbita sp.	Proximates	Arginine	11	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Arginine	6	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Arginine	6.3	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Arginine	5.9	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Arginine	6.2	% protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Arginine	3.1	% protein	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Arginine	7.8	% protein	Feedipedia

Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Arginine	9.4	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Arginine	12.6	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Arginine	12.5	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Arginine	4.1	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Arginine	4.7	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Arginine	7.4	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Arginine	7.3	% protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Arginine	7.5	% protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Arginine	7.2	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Arginine	7.3	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Arginine	7.2	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Arginine	7.2	% protein	Feedipedia
Sunflower	Sunflower screenings		Proximates	Arginine	4.9	% protein	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Arginine	8.1	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Arginine	8.5	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Arginine	8	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Arginine	8.5	% protein	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Arginine	5.3	% protein	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Arginine	7.5	% protein	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Arginine	2.7	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Arginine	3.9	% protein	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Arginine	1.4	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Arginine	5.1	% protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Arginine	1.3	% protein	Feedipedia

Lemon	Lemon pulp, dried		Proximates	Arginine	2.5	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Arginine	2.8	% protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Arginine	0.5	% protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Arginine	3.1	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Arginine	1.3	% protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Arginine	3	% protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Arginine	3.2	% protein	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Arginine	1.8	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Arginine	4.2	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Arginine	0.8	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Arginine	4.2	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Arginine	3.5	% protein	Feedipedia

Sugar beet	Sugar beet pulp		Proximates	Arginine	4.5	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Arginine	3	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Arginine	4.3	% protein	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Arginine	5.3	% protein	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Arginine	6	% protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Arginine	6	% protein	Feedipedia
Potato	Sweet potato leaf protein concentrate		Proximates	Arginine	6.7	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Arginine	3.6	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Arginine	4.5	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Arginine	0.6	% protein	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Arginine	4	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Arginine	4.1	% protein	Feedipedia

Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Arginine	0.5	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Arginine	0.2	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Arginine	0.5	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Arginine	9.3	% protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Arginine	4.2	% protein	Feedipedia
Animal by-products, unspecified	Blood meal	Chicken	Proximates	Arginine	6.2	% protein	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Arginine	8.1	% protein	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Arginine	7.7	% protein	Feedipedia
Eggs	Eggshells		Proximates	Arginine	0.5	% protein	Feedipedia
Poultry	Feather meal		Proximates	Arginine	6.7	% protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Arginine	5.8	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Arginine	6.2	% protein	Feedipedia

Fish, unspecified	Fish meal	Low protein	Proximates	Arginine	5.2	% protein	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Arginine	5.5	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Arginine	7.6	% protein	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Arginine	3.9	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Arginine	5.8	% protein	Feedipedia
Poultry	Hatchery by product		Proximates	Arginine	4.8	% protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Arginine	9.8	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Arginine	9	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Arginine	7.2	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Arginine	5.7	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Arginine	5.2	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Poultry	Proximates	Arginine	5.8	% protein	Feedipedia

Beef	Cattle manure	Fresh	Proximates	Arginine	2	% protein	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Arginine	3.1	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Arginine	6.9	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Arginine	6.7	% protein	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Arginine	6.6	% protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Arginine	3.5	% protein	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Arginine	2.3	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Arginine	6	% protein	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Arginine	7.9	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Arginine	6.1	% protein	Feedipedia
Snail	Snail meal	Without shells	Proximates	Arginine	15.4	% protein	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Arginine	3.8	% protein	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Arginine	3.6	% protein	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Arginine	4	% protein	Feedipedia

Whale	Whale meal		Proximates	Arginine	5	% protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Arginine	2.2	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Arginine	1.7	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Arginine	4.4	% protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Arginine	4.6	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Arginine	4.8	% protein	Feedipedia
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Arginine	2.68	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Arginine	3.34	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Hop	Hops		Proximates	Arginine	14.39	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Arginine	2.82	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Arginine	0.52	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Arginine	0.16	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Arginine	0.15	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Arginine	0.21	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Arginine	0.29	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Arginine	1.15	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Arginine	0.55	mg/g DM	NOSHAN

Rape	Rapeseed press cake		Proximates	Arginine	0.15	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Arginine	0.19	mg/g DM	NOSHAN
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Arginine	13.2	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Arginine	3.03	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Arginine	2.19	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Saltwater fish silage	Acid	Proximates	Arginine	6.11	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Arginine	3.62	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Arginine	1.8	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Arginine	7.72	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Arginine	2.46	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Tilapia	Tilapia residue silage	Fermented	Proximates	Arginine	2.49	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Arginine	7.27	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Arginine	13.4	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Arginine	7.2	g/kg DM	Nutritive value of plantain and chicory for pigs
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Arginine	114.44	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Milk	Milk	Granadina goats, Spain	Proximates	Arginine	135.65	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Arginine	4.7	g/16g N	Feedipedia
Poultry	Hatchery waste		Inorganics	Arsenic	<0.5	mg/kg	Composition of Australian meat chicken hatchery waste
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Arsenic	1.4	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Arsenic	6.6	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO

Grape	Grape marc		Inorganics	Arsenic	0.29	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Inorganics	Arsenic	0.01	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Inorganics	Arsenic	0.64	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape seeds		Inorganics	Arsenic	0.01	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Inorganics	Arsenic	0.01	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Inorganics	Arsenic	0	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Tomatoes	Tomato peel		Inorganics	Arsenic	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Inorganics	Arsenic	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Inorganics	Arsenic	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato meal		Inorganics	Arsenic	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Inorganics	Arsenic	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Inorganics	Arsenic	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Arsenic	3.4	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Arsenic	6.8	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Arsenic	2.7	mg/kg DM	ECN Phyllis 2
Apple	Apple	Average of 50 samples	Inorganics	Arsenic	0.3	mg/kg DM	ECN Phyllis 2
Apple	Apple		Inorganics	Arsenic	0	mg/kg DM	ECN Phyllis 2
Apple	Apple	Cox	Inorganics	Arsenic	0.1	mg/kg DM	ECN Phyllis 2
Brussels sprouts	Brussels sprouts		Inorganics	Arsenic	0.5	mg/kg DM	ECN Phyllis 2
Carrot	Carrot	Average of 46 samples	Inorganics	Arsenic	0.2	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Arsenic	0.2	mg/kg DM	ECN Phyllis 2

Carrot	Carrot		Inorganics	Arsenic	0.1	mg/kg DM	ECN Phyllis 2
Cauliflower	Cauliflower		Inorganics	Arsenic	0.1	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber	Average of 46 samples	Inorganics	Arsenic	0.5	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Arsenic	0.9	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Arsenic	0.1	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Arsenic	0.4	mg/kg DM	ECN Phyllis 2
Leek	Leek		Inorganics	Arsenic	0.2	mg/kg DM	ECN Phyllis 2
Leek	Leek		Inorganics	Arsenic	0.3	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce	Average of 54 samples	Inorganics	Arsenic	0.2	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce	Average of 21 samples	Inorganics	Arsenic	0.2	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Arsenic	0.4	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Arsenic	0.7	mg/kg DM	ECN Phyllis 2
Onion	Onion		Inorganics	Arsenic	1.4	mg/kg DM	ECN Phyllis 2
Potato	Potato	Average of 55 samples	Inorganics	Arsenic	0.1	mg/kg DM	ECN Phyllis 2
Potato	Potato	Average of 40 samples	Inorganics	Arsenic	0.1	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet		Inorganics	Arsenic	0.3	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 6 samples	Inorganics	Arsenic	0.2	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 36 samples	Inorganics	Arsenic	0.2	mg/kg DM	ECN Phyllis 2

Spinach	Spinach	Average of 40 samples	Inorganics	Arsenic	0.2	mg/kg DM	ECN Phyllis 2
Spinach	Spinach		Inorganics	Arsenic	0.5	mg/kg DM	ECN Phyllis 2
Nuts, unspecified	Nut kernels	Almond. Country: Spain	Inorganics	Arsenic	<1	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Arsenic	11.5	mg/kg DM	ECN Phyllis 2
Apple	Apple pomace		Inorganics	Arsenic	<0.1	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Arsenic	0.11	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Arsenic	0.09	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Arsenic	0.16	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Arsenic	0.11	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Arsenic	<0.1	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Arsenic	<0.1	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Arsenic	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Arsenic	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Arsenic	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Arsenic	0.1	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Arsenic	0.17	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Arsenic	<0.1	ppm d.b.	NOSHAN

Mushrooms	Mushrooms		Inorganics	Arsenic	0.52	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Arsenic	0.18	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Arsenic	0.29	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Arsenic	0.84	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Arsenic	0.1	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Arsenic	0.32	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Arsenic	0.13	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Arsenic	<0.1	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Arsenic	0.32	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Arsenic	0.22	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Arsenic	0.38	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Arsenic	0.29	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Arsenic	0.12	ppm d.b.	NOSHAN
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Arsenic	6.6	ppm	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace		Proximates	Ash	3.76	% DM	NOSHAN
Apple	Apple pomace	Malus domestica	Proximates	Ash	2.6	% DM	Fruit waste as feed paper

Apple	Apple pomace, dried	Powder	Proximates	Ash	1.89	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Proximates	Ash	3.89	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Proximates	Ash	3.89	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Proximates	Ash	3.94	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Citrus, unspecified	Citrus pulp, dried		Proximates	Ash	7	% DM	2012FeedComp
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Ash	4.5	% DM	Utilization of fruit and vegetable wastes, FAO
Cranberry	Cranberry pulp meal		Proximates	Ash	2	% DM	2012FeedComp
Orange	Orange pulp, dried	Orange, dried	Proximates	Ash	4	% DM	2012FeedComp
Grapefruit	Grapefruit pulp silage	Grapefruit. Source: Israel	Proximates	Ash	4.2	% DM	Citrus by-products for animal feed
Orange	Orange pulp silage	Source: Israel	Proximates	Ash	5.1	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus pulp, dried	Source: Trinidad	Proximates	Ash	7.1	% DM	Citrus by-products for animal feed

Citrus, unspecified	Citrus pulp, dried	Source: United States	Proximates	Ash	5.5	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus molasses	Source: United States	Proximates	Ash	6.6	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus seed meal	Source: United States	Proximates	Ash	7	% DM	Citrus by-products for animal feed
Orange	Orange peel	Orange	Proximates	Ash	3.49	% DM	NOSHAN
Citrus, unspecified	Citrus molasses		Proximates	Ash	8	% DM	2012FeedComp
Citrus, unspecified	Citrus pulp		Proximates	Ash	6.7	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Tomatoes	Tomato pomace, dried	Dried	Proximates	Ash	6	% DM	2012FeedComp
Tomatoes	Tomato pomace	Solanum lucopersicum	Proximates	Ash	4.8-6.0	% DM	Vegetable waste as animal feed paper
Rice	Rice hull		Proximates	Ash	20	% DM	2012FeedComp
Rice	Rice mill byproduct		Proximates	Ash	19	% DM	2012FeedComp

Wheat	Wheat middlings		Proximates	Ash	5.5	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Wheat	Wheat	Ground	Proximates	Ash	1.7	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Cheese	Whey	Milk	Proximates	Ash	7.22	% DM	NOSHAN
Poultry	Feather meal	Hydrolyzed	Proximates	Ash	3	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Beta vulgaris	Proximates	Ash	7.3	% DM	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet pulp		Proximates	Ash	8.9	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Ash	21	% DM	Utilization of fruit and vegetable wastes, FAO
Sunflower	Sunflower oil cake	By-product. Helianthus annuus (seed)	Proximates	Ash	6.6	% DM	Cropgen database
Barley	Barley grain screenings		Proximates	Ash	4	% DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Ash	4	% DM	2012FeedComp
Hop	Hops		Proximates	Ash	10.42	% DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewer's yeast		Proximates	Ash	7	% DM	2012FeedComp
Grape	Grape pomace	Stemless	Proximates	Ash	9	% DM	2012FeedComp
Grape	Grape pomace/marc	Namily vitaceae	Proximates	Ash	6.2-7.9	% DM	Fruit waste as feed paper
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Ash	2.53	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Ash	3.31	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Ash	7.59	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Ash	7.19	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Ash	6.17	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape vine shoot	Vitis vinifera	Proximates	Ash	3.8	% DM	Fruit waste as feed paper
Distillers grain	Distillers grain	Wet	Proximates	Ash	5	% DM	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Proximates	Ash	4	% DM	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Proximates	Ash	4	% DM	2012FeedComp
Distillers grain	Distillers, corn	FL 4/99	Proximates	Ash	4.31	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Distillers grain	Distillers, corn	Fl 5/99	Proximates	Ash	4.75	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Rice	Rice husk	Before soaking pre-treatment	Proximates	Ash	12.35	% DM	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk, dried	Soaked rice husks, dried	Proximates	Ash	13.18	% DM	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Sugar by-products, unspecified	Bagasse		Proximates	Ash	2.2	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Proximates	Ash	3.9	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Olive	Olive tree pruning	Biomass	Proximates	Ash	4.1	% DM	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass

Grape	Grape marc		Proximates	Ash	8.1	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Proximates	Ash	9	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Proximates	Ash	10.6	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape seeds		Proximates	Ash	6.4	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Proximates	Ash	3.1	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Proximates	Ash	4.8	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Tomatoes	Tomato peel		Proximates	Ash	3.8	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Proximates	Ash	4.2	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Proximates	Ash	5.1	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato meal		Proximates	Ash	5.6	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Proximates	Ash	3.7	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Proximates	Ash	3.3	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Banana	Banana bunch		Proximates	Ash	12.36	% DM	Binderless fiberboard from steam exploded banana bunch
Nuts, unspecified	Nut hulls	Almond	Proximates	Ash	7	% DM	2012FeedComp

Apple	Apple		Proximates	Ash	2	% DM	2012FeedComp
Apple	Apple pomace	Wet	Proximates	Ash	3	% DM	2012FeedComp
Banana	Banana		Proximates	Ash	3	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Proximates	Ash	5	% DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Proximates	Ash	5	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Proximates	Ash	6	% DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Proximates	Ash	6	% DM	2012FeedComp
Sugar beet	Sugar beet root		Proximates	Ash	3	% DM	2012FeedComp
Sugar beet	Sugar beet tops		Proximates	Ash	24	% DM	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Proximates	Ash	32	% DM	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Proximates	Ash	3	% DM	2012FeedComp
Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Proximates	Ash	77	% DM	2012FeedComp
Bread	Bread by product		Proximates	Ash	3	% DM	2012FeedComp

Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	Ash	4	% DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Proximates	Ash	7	% DM	2012FeedComp
Butter	Buttermilk, dried		Proximates	Ash	10	% DM	2012FeedComp
Bread	Calcium carbonate		Proximates	Ash	99	% DM	2012FeedComp
Carrot	Carrot pulp		Proximates	Ash	9	% DM	2012FeedComp
Carrot	Carrot	Roots, fresh	Proximates	Ash	10	% DM	2012FeedComp
Carrot	Carrot tops		Proximates	Ash	15	% DM	2012FeedComp
Beef	Cattle manure, dried	Dried	Proximates	Ash	14	% DM	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Proximates	Ash	7	% DM	2012FeedComp
Coffee	Coffee grounds		Proximates	Ash	2	% DM	2012FeedComp
Cotton	Cottonseed hulls		Proximates	Ash	3	% DM	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Proximates	Ash	7	% DM	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Proximates	Ash	7	% DM	2012FeedComp

Crab	Crab waste meal		Proximates	Ash	43	% DM	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Proximates	Ash	8	% DM	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Proximates	Ash	7	% DM	2012FeedComp
Crawfish	Crawfish waste meal		Proximates	Ash	42	% DM	2012FeedComp
Distillers grain	Distillers grain	Barley	Proximates	Ash	4	% DM	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Proximates	Ash	5	% DM	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Proximates	Ash	5	% DM	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Proximates	Ash	6	% DM	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Proximates	Ash	8	% DM	2012FeedComp
Distillers grain	Distillers corn stillage		Proximates	Ash	5	% DM	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Proximates	Ash	4	% DM	2012FeedComp
Fish, unspecified	Fish meal		Proximates	Ash	20	% DM	2012FeedComp
Flax/linseed	Flax seed hulls		Proximates	Ash	10	% DM	2012FeedComp

Hop	Hop leaves		Proximates	Ash	35	% DM	2012FeedComp
Hop	Hop vine silage		Proximates	Ash	20	% DM	2012FeedComp
Hop	Hops	Spent	Proximates	Ash	7	% DM	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Proximates	Ash	6	% DM	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Proximates	Ash	6	% DM	2012FeedComp
Poultry	Meat meal	Swine/poultry	Proximates	Ash	24	% DM	2012FeedComp
Sugar beet	Sugar beet molasses		Proximates	Ash	12	% DM	2012FeedComp
Sugar cane	Sugar cane molasses		Proximates	Ash	14	% DM	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Proximates	Ash	14	% DM	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Proximates	Ash	26	% DM	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Proximates	Ash	5	% DM	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Proximates	Ash	6	% DM	2012FeedComp
Nuts, unspecified	Nut skins	Peanut	Proximates	Ash	3	% DM	2012FeedComp

Pineapple	Pineapple greenchop		Proximates	Ash	7	% DM	2012FeedComp
Pineapple	Pineapple bran		Proximates	Ash	3	% DM	2012FeedComp
Pineapple	Pineapple presscake		Proximates	Ash	3	% DM	2012FeedComp
Potato	Potato vine silage		Proximates	Ash	19	% DM	2012FeedComp
Potato	Potato	Cull	Proximates	Ash	5	% DM	2012FeedComp
Potato	Potato waste	Wet	Proximates	Ash	3	% DM	2012FeedComp
Potato	Potato waste, dried	Dried	Proximates	Ash	5	% DM	2012FeedComp
Potato	Potato waste	Wet with lime	Proximates	Ash	9	% DM	2012FeedComp
Potato	Potato waste	Filter cake	Proximates	Ash	3	% DM	2012FeedComp
Poultry	Poultry by product meal		Proximates	Ash	17	% DM	2012FeedComp
Poultry	Poultry manure, dried	Dried	Proximates	Ash	33	% DM	2012FeedComp
Rice	Rice straw		Proximates	Ash	13	% DM	2012FeedComp
Rice	Rice straw	Ammoniated	Proximates	Ash	12	% DM	2012FeedComp
Rice	Rice grain		Proximates	Ash	5	% DM	2012FeedComp

Rice	Rice polishings		Proximates	Ash	9	% DM	2012FeedComp
Rice	Rice bran		Proximates	Ash	11	% DM	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Proximates	Ash	6	% DM	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Proximates	Ash	7	% DM	2012FeedComp
Safflower	Safflower hulls		Proximates	Ash	2	% DM	2012FeedComp
Shrimp	Shrimp waste meal		Proximates	Ash	25	% DM	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Proximates	Ash	8	% DM	2012FeedComp
Sunflower	Sunflower meal	With hulls	Proximates	Ash	7	% DM	2012FeedComp
Sunflower	Sunflower seed hulls		Proximates	Ash	3	% DM	2012FeedComp
Sugar cane	Sugar cane bagasse		Proximates	Ash	4	% DM	2012FeedComp
Tomatoes	Tomato		Proximates	Ash	6	% DM	2012FeedComp
Wheat	Wheat	Fresh, pasture	Proximates	Ash	13	% DM	2012FeedComp
Wheat	Wheat hay		Proximates	Ash	8	% DM	2012FeedComp
Wheat	Wheat silage		Proximates	Ash	8	% DM	2012FeedComp

Wheat	Wheat straw		Proximates	Ash	8	% DM	2012FeedComp
Wheat	Wheat straw	Ammoniated	Proximates	Ash	9	% DM	2012FeedComp
Wheat	Wheat grain		Proximates	Ash	2	% DM	2012FeedComp
Wheat	Wheat grain	Hard	Proximates	Ash	2	% DM	2012FeedComp
Wheat	Wheat grain	Soft	Proximates	Ash	2	% DM	2012FeedComp
Wheat	Wheat grain	Steam flaked	Proximates	Ash	2	% DM	2012FeedComp
Wheat	Wheat grain	Sprouted	Proximates	Ash	2	% DM	2012FeedComp
Wheat	Wheat bran		Proximates	Ash	7	% DM	2012FeedComp
Wheat	Wheat middlings		Proximates	Ash	5	% DM	2012FeedComp
Wheat	Wheat mill run		Proximates	Ash	6	% DM	2012FeedComp
Wheat	Wheat shorts		Proximates	Ash	5	% DM	2012FeedComp
Cheese	Whey, dried	Dried	Proximates	Ash	10	% DM	2012FeedComp

Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Proximates	Ash	6.6	% DM	Cropgen database
Nuts, unspecified	Nut hulls	Almond, WH	Proximates	Ash	5	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Cotton	Cottonseed	Whole, FL 5/99	Proximates	Ash	4.1	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Apple	Apple cake		Proximates	Ash	1.94	% DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Ash	5.3	% DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Ash	4.2	% DM	NOSHAN
Cabbage	Cabbage		Proximates	Ash	16.97	% DM	NOSHAN

Cheese	Cheese	Hard	Proximates	Ash	6.11	% DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Ash	4.32	% DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Ash	1.5	% DM	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Ash	24.59	% DM	NOSHAN
Grape	Grape pomace		Proximates	Ash	7.31	% DM	NOSHAN
Barley	Malted barley germs		Proximates	Ash	8.18	% DM	NOSHAN
Barley	Malted barley germs		Proximates	Ash	8.16	% DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Ash	4.79	% DM	NOSHAN
Olive	Olive pomace		Proximates	Ash	6.07	% DM	NOSHAN
Onion	Onion hulls		Proximates	Ash	5.93	% DM	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Ash	15.93	% DM	NOSHAN
Potato	Potato	Selected	Proximates	Ash	3.98	% DM	NOSHAN
Potato	Potato skin		Proximates	Ash	6.01	% DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Ash	7.29	% DM	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Ash	18.68	% DM	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Ash	11.4	% DM	NOSHAN
Tomatoes	Tomato skin		Proximates	Ash	5.75	% DM	NOSHAN
Apple	Apple	Whole	Proximates	Ash	6.88	% DM	NOSHAN
Pears	Pear	Whole	Proximates	Ash	6.49	% DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Ash	5.77	% DM	NOSHAN

Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Ash	13.7	% DM	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Ash	15.8	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Proximates	Ash	8.2	% DM	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Proximates	Ash	4.8	% DM	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Ash	4.5	% DM	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Proximates	Ash	2.6	% DM	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Proximates	Ash	7.9	% DM	Utilization of fruit and vegetable wastes, FAO

Pineapple	Pineapple bran	Ananas comosus	Proximates	Ash	3.5	% DM	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Ash	6	% DM	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Ash	11.1	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Proximates	Ash	14.9	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Ash	7.9	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Ash	7.5	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Proximates	Ash	8.2	% DM	Vegetable waste as animal feed paper

Carrot	Carrot pulp	Daucus carota	Proximates	Ash	7.5	% DM	Vegetable waste as animal feed paper
Cucumber	Cucumber	Cucumis sativus	Proximates	Ash	11.3	% DM	Vegetable waste as animal feed paper
Cucumber	Cucumber peel	Cucumis sativus	Proximates	Ash	9.7	% DM	Vegetable waste as animal feed paper
Food, unspecified	Grocery by-product waste	Fruits, vegetables and bakery items from retail grocery stores	Proximates	Ash	7.3	% DM	Vegetable waste as animal feed paper
Potato	Potato	Solanum tuberosum	Proximates	Ash	4.8	% DM	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Proximates	Ash	7.8-11.1	% DM	Vegetable waste as animal feed paper
Potato	Potato vines	Solanum tuberosum	Proximates	Ash	12-18	% DM	Vegetable waste as animal feed paper

Pumpkin	Pumpkin oil meal	Cucurbita pepo	Proximates	Ash	8.5	% DM	Vegetable waste as animal feed paper
Tomatoes	Tomato	L.esculentum	Proximates	Ash	7.7-10.1	% DM	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Ash	4.8-6	% DM	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Proximates	Ash	15.8	% DM	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Proximates	Ash	13.7	% DM	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Ash	21	% DM	Vegetable waste as animal feed paper
Bakery	Bakery product, dried	Dried	Proximates	Ash	4	% DM	2012FeedComp
Canola	Canola meal	Solv. Ext.	Proximates	Ash	8	% DM	2012FeedComp

Cotton	Cottonseed	Whole	Proximates	Ash	5	% DM	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Proximates	Ash	5	% DM	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Proximates	Ash	5	% DM	2012FeedComp
Grain, unspecified	Grain screenings		Proximates	Ash	9	% DM	2012FeedComp
Grain, unspecified	Grain dust		Proximates	Ash	10	% DM	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Proximates	Ash	29	% DM	2012FeedComp
Milk	Milk, dried	Dry, skim	Proximates	Ash	8	% DM	2012FeedComp
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Ash	4.53	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Ash	4.33	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Ash	4.28	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Bolti	Bolti fish	Whole	Proximates	Ash	20.05	% DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Bolti	Bolti fish	Flesh only	Proximates	Ash	7.15	% DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate

Fish, unspecified	Fish protein isolate		Proximates	Ash	13.82	% DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Rice	Rice husk	Variety: Lemont LG	Proximates	Ash	20	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: ROK 14	Proximates	Ash	18.8	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis

Rice	Rice husk	Variety: CP4	Proximates	Ash	24.6	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: Pa Potho	Proximates	Ash	18.2	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Raw	Proximates	Ash	19.6	% DM	Development of photoluminesc ent glass derived from rice husk
Sugar cane	Sugar cane bagasse		Proximates	Ash	2	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw

Sugar cane	Sugar cane straw		Proximates	Ash	4.7	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw
Sugar beet	Sugar beet pulp		Proximates	Ash	6.86	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Ash	5.34	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Sugar beet	Sugar beet pulp		Proximates	Ash	9.55	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Ash	6.46	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Ash	6.47	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Rice	Rice bran		Proximates	Ash	6.97	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Ash	4.76	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Ash	5.25	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Almond	Almond hulls		Proximates	Ash	5.06	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Ash	7.31	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Ash	2.85	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Citrus, unspecified	Citrus pulp		Proximates	Ash	7.54	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Ash	3.81	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Ash	3.57	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Bakery	Bakery waste		Proximates	Ash	3.49	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Ash	4.24	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Ash	4.86	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Wheat	Wheat mill run		Proximates	Ash	3.32	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Ash	4.19	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Ash	2.92	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Ash	3.76	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Ash	4.81	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Ash	4.2	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Distillers grain	Distillers grain		Proximates	Ash	4.05	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar by-products, unspecified	Bagasse		Proximates	Ash	1.9	% DM	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Rice	Rice hay		Proximates	Ash	15.7	% DM	Feedipedia
Rice	Rice, aerial part	Fresh	Proximates	Ash	19.1	% DM	Feedipedia
Rice	Rice straw		Proximates	Ash	18.1	% DM	Feedipedia
Rice	Rice straw	Urea-treated	Proximates	Ash	19.3	% DM	Feedipedia
Rice	Rice straw	Ammonia-treated	Proximates	Ash	15.2	% DM	Feedipedia
Rice	Rice straw	NaOH-treated	Proximates	Ash	19	% DM	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Ash	7	% DM	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Ash	4.6	% DM	Feedipedia

Sugar cane	Sugar cane leaves	Fresh	Proximates	Ash	5.1	% DM	Feedipedia
Sugar cane	Sugar cane leaves, dried	Dry	Proximates	Ash	7.3	% DM	Feedipedia
Wheat	Triticale grain		Proximates	Ash	2.1	% DM	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Ash	6.6	% DM	Feedipedia
Wheat	Triticale straw		Proximates	Ash	5.4	% DM	Feedipedia
Wheat	Wheat hay		Proximates	Ash	9	% DM	Feedipedia
Wheat	Wheat straw		Proximates	Ash	6.7	% DM	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Ash	8.2	% DM	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Ash	5.4	% DM	Feedipedia
Palm	Oil palm fronds, dried	Dried, Elaeis guineensis	Proximates	Ash	6	% DM	Feedipedia
Palm	Oil palm fronds	Silage	Proximates	Ash	5.8	% DM	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Ash	7.5	% DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Ash	3.3	% DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Ash	5.8	% DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Ash	5.4	% DM	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Ash	4.6	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Ash	4.1	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Ash	4.2	% DM	Feedipedia
Rice	Rice grain	Polished	Proximates	Ash	0.6	% DM	Feedipedia
Rice	Rice grain	Polished, parboiled	Proximates	Ash	0.9	% DM	Feedipedia
Rice	Rice grain	Brown	Proximates	Ash	1.7	% DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Ash	6	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Ash	5.4	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Ash	2.6	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Ash	6.8	% DM	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Ash	3.8	% DM	Feedipedia

Distillery by-products, unspecified	Thin stillage		Proximates	Ash	6.3	% DM	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Ash	6.9	% DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Ash	9.4	% DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Ash	12.4	% DM	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Ash	13.6	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Ash	12.3	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Ash	14.2	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Ash	19.1	% DM	Feedipedia
Rice	Rice hull		Proximates	Ash	17.5	% DM	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Ash	5.9	% DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Proximates	Ash	4.7	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Ash	7.3	% DM	Feedipedia
Sorghum	Malted sorghum sprouts		Proximates	Ash	7.9	% DM	Feedipedia

Distillers grain	Distillers grain	Fresh, Sorghum, with or without solubles	Proximates	Ash	2.5	% DM	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Ash	4.5	% DM	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Ash	6.4	% DM	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Ash	3.6	% DM	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Ash	2.8	% DM	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Ash	2.1	% DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Ash	1.8	% DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Ash	1.6	% DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Ash	1.9	% DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Ash	2	% DM	Feedipedia
Wheat	Wheat starch		Proximates	Ash	0.9	% DM	Feedipedia
Wheat	Wheat bran		Proximates	Ash	5.6	% DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Ash	5.9	% DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Ash	5	% DM	Feedipedia

Wheat	Wheat germs		Proximates	Ash	4.7	% DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Proximates	Ash	7.3	% DM	Feedipedia
Wheat	Wheat grain		Proximates	Ash	1.8	% DM	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Ash	2.1	% DM	Feedipedia
Wheat	Wheat screenings		Proximates	Ash	4.4	% DM	Feedipedia
Nuts, unspecified	Nut kernels	Almond	Proximates	Ash	3.3	% DM	Feedipedia
Nuts, unspecified	Nut oil meal	Almond, dehulled, mechanical extraction	Proximates	Ash	6.5	% DM	Feedipedia
Nuts, unspecified	Nut oil meal	Almond, with hulls, mechanical extraction	Proximates	Ash	6.4	% DM	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Proximates	Ash	7.9	% DM	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Proximates	Ash	6.6	% DM	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Proximates	Ash	4.9	% DM	Feedipedia

Argan	Argan oil cake	Solvent-extracted, Argania spinosa	Proximates	Ash	5.3	% DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Ash	3.4	% DM	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Proximates	Ash	5.1	% DM	Feedipedia
Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Ash	4.4	% DM	Feedipedia
Castor	Castor hulls	Ricinus communis	Proximates	Ash	7	% DM	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Ash	6.9	% DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Ash	9.3	% DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Ash	8.5	% DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Ash	11.2	% DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Ash	6.8	% DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Ash	7	% DM	Feedipedia
Coconut	Coconut copra	Fresh	Proximates	Ash	2.5	% DM	Feedipedia
Coconut	Coconut coir dust		Proximates	Ash	7.6	% DM	Feedipedia

Coconut	Coconut water		Proximates	Ash	12.3	% DM	Feedipedia
Cotton	Cotton straw		Proximates	Ash	7.6	% DM	Feedipedia
Cotton	Cotton leaves	Fresh	Proximates	Ash	9.1	% DM	Feedipedia
Cotton	Cottonseed hulls		Proximates	Ash	2.9	% DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Ash	7.4	% DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Ash	7	% DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Ash	6.5	% DM	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Ash	7.1	% DM	Feedipedia
Flax/linseed	Flax straw		Proximates	Ash	7.6	% DM	Feedipedia
Flax/linseed	Flax chaff		Proximates	Ash	12.1	% DM	Feedipedia
Flax/linseed	Flax shives		Proximates	Ash	4.5	% DM	Feedipedia
Flax/linseed	Flax, aerial part	Fresh	Proximates	Ash	6.6	% DM	Feedipedia
Flax/linseed	Flax hay		Proximates	Ash	6.5	% DM	Feedipedia
Grape	Grape seeds		Proximates	Ash	3.4	% DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Ash	3.8	% DM	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Proximates	Ash	6.2	% DM	Feedipedia
Flax/linseed	Linseed meal		Proximates	Ash	6.3	% DM	Feedipedia

Flax/linseed	Linseed meal	Solvent extraction	Proximates	Ash	6.4	% DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Ash	2	% DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Ash	3.2	% DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Ash	5.4	% DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Ash	5.8	% DM	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Ash	6.1	% DM	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Ash	1.1	% DM	Feedipedia
Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Proximates	Ash	8.3	% DM	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Ash	7.6	% DM	Feedipedia
Mustard	Mustard seeds	Brassica sp.	Proximates	Ash	5.1	% DM	Feedipedia
Palm	Oil palm kernels		Proximates	Ash	2.1	% DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Ash	6.7	% DM	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Ash	14.5	% DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Ash	8.5	% DM	Feedipedia

Olive	Olive oil cake	Exhausted, without stones	Proximates	Ash	7.4	% DM	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Ash	5.3	% DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Ash	7.7	% DM	Feedipedia
Olive	Olive pits	Exhausted	Proximates	Ash	1.2	% DM	Feedipedia
Olive	Olive kernels	Exhausted	Proximates	Ash	5	% DM	Feedipedia
Olive	Olive oil vegetation water		Proximates	Ash	14.3	% DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Ash	4.7	% DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Ash	4.6	% DM	Feedipedia
Palm	Palm oil mill effluent	Decanted	Proximates	Ash	8.7	% DM	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Ash	18.5	% DM	Feedipedia
Palm	Palm press fibre	High oil	Proximates	Ash	6.7	% DM	Feedipedia
Palm	Palm press fibre	Low oil	Proximates	Ash	4.9	% DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Ash	9.9	% DM	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Ash	16.3	% DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Ash	5.2	% DM	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Ash	6.9	% DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Ash	6.4	% DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Ash	5.8	% DM	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Ash	2.6	% DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Proximates	Ash	4	% DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Ash	5	% DM	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Ash	13.4	% DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Ash	14	% DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Ash	7.1	% DM	Feedipedia
Pumpkin	Pumpkin	Fruits, dried, Cucurbita sp.	Proximates	Ash	5.4	% DM	Feedipedia
Pumpkin	Pumpkin hulls	Cucurbita sp.	Proximates	Ash	2.8	% DM	Feedipedia

Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Ash	8.5	% DM	Feedipedia
Pumpkin	Pumpkin oil meal	Mechanical extraction, Cucurbita sp.	Proximates	Ash	9	% DM	Feedipedia
Pumpkin	Pumpkin seeds	With hulls, Cucurbita sp.	Proximates	Ash	4	% DM	Feedipedia
Rape	Rape forage	Fresh	Proximates	Ash	15.9	% DM	Feedipedia
Rape	Rape forage	Silage	Proximates	Ash	19.9	% DM	Feedipedia
Rape	Rape forage, dried	Dehydrated	Proximates	Ash	15.8	% DM	Feedipedia
Rape	Rape straw		Proximates	Ash	8.7	% DM	Feedipedia
Rape	Rapeseed hulls		Proximates	Ash	5.5	% DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Ash	7.8	% DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Ash	6.9	% DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Ash	7.8	% DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Ash	4.3	% DM	Feedipedia

Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Ash	1.5	% DM	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Ash	4.4	% DM	Feedipedia
Safflower	Safflower meal	Without hulls, expeller extraction. Carthamus tinctorius	Proximates	Ash	8.1	% DM	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Ash	2.4	% DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Ash	11.9	% DM	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Ash	12.6	% DM	Feedipedia
Sesame	Sesame seeds	Whole	Proximates	Ash	4.9	% DM	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Ash	9.3	% DM	Feedipedia
Soy	Soybean hay		Proximates	Ash	7.6	% DM	Feedipedia
Soy	Soybean straw		Proximates	Ash	7.9	% DM	Feedipedia
Soy	Soybean hulls		Proximates	Ash	5.2	% DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Ash	7.1	% DM	Feedipedia

Soy	Soybean meal	High protein (non-dehulled)	Proximates	Ash	7.2	% DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Ash	6.8	% DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Ash	5.7	% DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Ash	5.5	% DM	Feedipedia
Soy	Soybeans	Toasted	Proximates	Ash	5.7	% DM	Feedipedia
Soy	Soybeans	Extruded	Proximates	Ash	5.8	% DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Ash	13.1	% DM	Feedipedia
Sunflower	Sunflower forage	Silage	Proximates	Ash	12.2	% DM	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Proximates	Ash	8.4	% DM	Feedipedia
Sunflower	Sunflower heads	Without seeds	Proximates	Ash	10.4	% DM	Feedipedia
Sunflower	Sunflower stalks		Proximates	Ash	11.7	% DM	Feedipedia
Sunflower	Sunflower hulls		Proximates	Ash	3.8	% DM	Feedipedia
Sunflower	Sunflower screenings		Proximates	Ash	7.1	% DM	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Ash	7.1	% DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Ash	7.7	% DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Ash	7	% DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Ash	5.7	% DM	Feedipedia
Sunflower	Sunflower seeds		Proximates	Ash	3.5	% DM	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Ash	7.4	% DM	Feedipedia
Nuts, unspecified	Nut hulls	Walnut (Juglans regia)	Proximates	Ash	1.5	% DM	Feedipedia
Nuts, unspecified	Nut kernels	Walnut (Juglans regia)	Proximates	Ash	1.9	% DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Ash	8.9	% DM	Feedipedia

Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Proximates	Ash	6	% DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, high fibre	Proximates	Ash	5.5	% DM	Feedipedia
Melon	Watermelon, hulls	Citrullus lanatus	Proximates	Ash	5.9	% DM	Feedipedia
Melon	Watermelon, seeds	Decorticated. Citrullus lanatus	Proximates	Ash	6.2	% DM	Feedipedia
Melon	Watermelon, seeds	Whole. Citrullus lanatus	Proximates	Ash	4.2	% DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Ash	2.1	% DM	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Ash	2.5	% DM	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Ash	2.3	% DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Ash	5.9	% DM	Feedipedia
Banana	Banana fruits, ensiled	Mature, ensiled	Proximates	Ash	5.7	% DM	Feedipedia

Banana	Banana fruits	Mature, without peel, fresh	Proximates	Ash	4.5	% DM	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Ash	4.9	% DM	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Proximates	Ash	5.1	% DM	Feedipedia
Banana	Banana fruits, ensiled	Immature, ensiled	Proximates	Ash	4.5	% DM	Feedipedia
Banana	Banana fruits	Immature, without peel, fresh	Proximates	Ash	3	% DM	Feedipedia
Banana	Banana fruits, dried	Immature, without peel, dehydrated	Proximates	Ash	3.8	% DM	Feedipedia
Plantain	Plantain banana fruits	Fresh	Proximates	Ash	3.6	% DM	Feedipedia
Plantain	Plantain banana fruits, dried	Dehydrated	Proximates	Ash	4.2	% DM	Feedipedia
Plantain	Plantain banana fruits	Without peel, cooked	Proximates	Ash	1.3	% DM	Feedipedia
Banana	Banana flour		Proximates	Ash	3.6	% DM	Feedipedia
Banana	Banana shoots	Fresh	Proximates	Ash	16.2	% DM	Feedipedia
Plantain	Plantain banana trunk	Fresh	Proximates	Ash	11.3	% DM	Feedipedia

Banana	Banana leaves, dried	Dehydrated	Proximates	Ash	8.9	% DM	Feedipedia
Banana	Banana stalks	Fresh	Proximates	Ash	15.4	% DM	Feedipedia
Banana	Banana	Aerial part, fresh	Proximates	Ash	11.1	% DM	Feedipedia
Plantain	Plantain banana shoots	Fresh	Proximates	Ash	17.1	% DM	Feedipedia
Plantain	Plantain banana leaves	Fresh	Proximates	Ash	11.4	% DM	Feedipedia
Banana	Banana peel	Mature, fresh	Proximates	Ash	12	% DM	Feedipedia
Banana	Banana peel	Immature, fresh	Proximates	Ash	13.2	% DM	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Proximates	Ash	12	% DM	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Proximates	Ash	10.8	% DM	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Ash	3.1	% DM	Feedipedia
Citrus, unspecified	Citrus, dried	Fruits, dried	Proximates	Ash	5.5	% DM	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Ash	4.1	% DM	Feedipedia
Lime	Lime	Fruits (Citrus aurantiifolia)	Proximates	Ash	6.6	% DM	Feedipedia
Grapefruit	Grapefruit	Fruits (Citrus paradisi), fresh	Proximates	Ash	3.9	% DM	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Ash	10.6	% DM	Feedipedia

Citrus, unspecified	Citrus molasses		Proximates	Ash	6.6	% DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Ash	6.9	% DM	Feedipedia
Orange	Orange pulp, dried	Orange, dried	Proximates	Ash	6.6	% DM	Feedipedia
Orange	Orange pulp, dried	Mandarin, dried	Proximates	Ash	4.2	% DM	Feedipedia
Lemon	Lemon pulp, dried		Proximates	Ash	13.4	% DM	Feedipedia
Orange	Orange pulp	Orange, fresh	Proximates	Ash	3.6	% DM	Feedipedia
Grapefruit	Grapefruit pulp	Fresh	Proximates	Ash	4.1	% DM	Feedipedia
Orange	Orange pulp	Clementine, fresh	Proximates	Ash	3.9	% DM	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Ash	4	% DM	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Ash	3.8	% DM	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Ash	3.7	% DM	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Ash	5.1	% DM	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Ash	3.9	% DM	Feedipedia
Grapefruit	Grapefruit peel silage	Grapefruit	Proximates	Ash	4.2	% DM	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Ash	3.6	% DM	Feedipedia

Lime	Lime peel silage	Lime	Proximates	Ash	9.5	% DM	Feedipedia
Citrus, unspecified	Citrus seed meal		Proximates	Ash	7.1	% DM	Feedipedia
Lime	Lime seeds	Lime (Citrus aurantiifolia)	Proximates	Ash	2.1	% DM	Feedipedia
Coffee	Coffee hulls		Proximates	Ash	6.5	% DM	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Ash	8.9	% DM	Feedipedia
Coffee	Coffee parchment		Proximates	Ash	1.3	% DM	Feedipedia
Coffee	Instant coffee by product		Proximates	Ash	1.8	% DM	Feedipedia
Coffee	Coffee oil meal	By product of essential oil extraction	Proximates	Ash	5	% DM	Feedipedia
Coffee	Coffee leaves		Proximates	Ash	8.2	% DM	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Ash	3.7	% DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Ash	2.5	% DM	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Ash	2.9	% DM	Feedipedia

Date	Date palm, pulp	Pulp, high ash, Phoenix dactylifera	Proximates	Ash	21.1	% DM	Feedipedia
Date	Date palm leaves	Fresh	Proximates	Ash	12.4	% DM	Feedipedia
Date	Date palm leaves, dried	Dry	Proximates	Ash	12.9	% DM	Feedipedia
Date	Date palm pedicels		Proximates	Ash	7.6	% DM	Feedipedia
Date	Date palm flower stems		Proximates	Ash	8.6	% DM	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Ash	7.8	% DM	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Ash	7.3	% DM	Feedipedia
Grape	Grape pomace	Silage	Proximates	Ash	7.1	% DM	Feedipedia
Melon	Melon	Aerial part, fresh. Cucumis melo	Proximates	Ash	4.5	% DM	Feedipedia
Melon	Melon	Fruit, fresh. Cucumis melo	Proximates	Ash	15.7	% DM	Feedipedia
Melon	Melon seeds	Cucumis melo	Proximates	Ash	20.4	% DM	Feedipedia
Olive	Olive skins		Proximates	Ash	7.9	% DM	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Ash	8.1	% DM	Feedipedia

Pineapple	Pineapple leaves	Fresh, Ananas comosus	Proximates	Ash	4.9	% DM	Feedipedia
Pineapple	Pineapple leaves	Silage, Ananas comosus	Proximates	Ash	10	% DM	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Ash	18.2	% DM	Feedipedia
Tomatoes	Tomato plant	Fresh, whole plant	Proximates	Ash	18.1	% DM	Feedipedia
Tomatoes	Tomato, leaves	Fresh	Proximates	Ash	17.6	% DM	Feedipedia
Tomatoes	Tomato, stems	Fresh	Proximates	Ash	18.4	% DM	Feedipedia
Melon	Watermelon	Aerial part, fresh. Citrullus lanatus	Proximates	Ash	18.4	% DM	Feedipedia
Melon	Watermelon	Fruit, fresh. Citrullus lanatus	Proximates	Ash	7.8	% DM	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Ash	12.7	% DM	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Ash	7.4	% DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Ash	6.4	% DM	Feedipedia
Carrot	Carrot tops	Fresh	Proximates	Ash	17.4	% DM	Feedipedia
Potato	Potato leaves, dried	Dried	Proximates	Ash	10.8	% DM	Feedipedia
Potato	Potato aerial part	Fresh	Proximates	Ash	13.5	% DM	Feedipedia

Potato	Potato peel	Fresh	Proximates	Ash	6.1	% DM	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Ash	7	% DM	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Ash	7.7	% DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Ash	7	% DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Ash	6.8	% DM	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Proximates	Ash	8.4	% DM	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Ash	6.9	% DM	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Proximates	Ash	14.1	% DM	Feedipedia
Sugar beet	Sugar beet leaves and tops	Fresh	Proximates	Ash	16	% DM	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Ash	22.4	% DM	Feedipedia
Sugar beet	Sugar beet tops	Silage	Proximates	Ash	22.8	% DM	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Proximates	Ash	20.5	% DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Ash	11.2	% DM	Feedipedia

Potato	Sweet potato, aerial part, dried	Dry	Proximates	Ash	11.8	% DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Ash	3.6	% DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Ash	3.1	% DM	Feedipedia
Sugar	Sugar, feed grade		Proximates	Ash	1.2	% DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Ash	7.7	% DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Ash	5.9	% DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Ash	5.7	% DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Urea-treated, dehydrated	Proximates	Ash	4.8	% DM	Feedipedia
Sugar by-products, unspecified	Bagasse	NaOH-treated, fresh	Proximates	Ash	10.4	% DM	Feedipedia
Sugar by-products, unspecified	Bagasse pith		Proximates	Ash	2.5	% DM	Feedipedia
Sugar cane	Sugar cane juice		Proximates	Ash	1.3	% DM	Feedipedia

Sugar cane	Sugar cane molasses		Proximates	Ash	14.6	% DM	Feedipedia
Sugar cane	Sugar cane, syrup-off		Proximates	Ash	1.3	% DM	Feedipedia
Sugar cane	Sugar cane mud	Filter press mud	Proximates	Ash	23.9	% DM	Feedipedia
Sugar cane	Sugar cane mud	Rotary-filter mud	Proximates	Ash	14.2	% DM	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Ash	7.7	% DM	Feedipedia
Sugar cane	Sugar cane tops	Silage	Proximates	Ash	8	% DM	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Ash	1.9	% DM	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Proximates	Ash	9.7	% DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Ash	10.1	% DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Ash	5.8	% DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Ash	4.7	% DM	Feedipedia

Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Ash	26.5	% DM	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Ash	1.7	% DM	Feedipedia
Lamb	Wool meal	Hydrolysed	Proximates	Ash	26	% DM	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Ash	3	% DM	Feedipedia
Animal by-products, unspecified	Blood meal	Preserved with acid	Proximates	Ash	3.4	% DM	Feedipedia
Animal by-products, unspecified	Blood meal	Non-industrial	Proximates	Ash	12.2	% DM	Feedipedia
Animal by-products, unspecified	Blood	Fresh	Proximates	Ash	5	% DM	Feedipedia
Animal by-products, unspecified	Blood	Chicken, fresh	Proximates	Ash	5.9	% DM	Feedipedia
Animal by-products, unspecified	Blood	Moist	Proximates	Ash	10.9	% DM	Feedipedia
Animal by-products, unspecified	Bone meal	Calcinated	Proximates	Ash	84.5	% DM	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Ash	49	% DM	Feedipedia

Animal by-products, unspecified	Bone meal	Steamed	Proximates	Ash	85	% DM	Feedipedia
Crab	Crab meal, dried	Dehydrated	Proximates	Ash	51.9	% DM	Feedipedia
Crab	Crab shells	Ground	Proximates	Ash	56.5	% DM	Feedipedia
Eggs	Eggshells		Proximates	Ash	92.3	% DM	Feedipedia
Poultry	Feather meal		Proximates	Ash	5.5	% DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Ash	13.6	% DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Ash	18.4	% DM	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Ash	35.2	% DM	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Ash	7.1	% DM	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Ash	13.8	% DM	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Ash	11.8	% DM	Feedipedia
Fish, unspecified	Fish solubles	Menhaden, fresh	Proximates	Ash	15.3	% DM	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Ash	20.6	% DM	Feedipedia
Frog	Frog meal	Whole frog	Proximates	Ash	17.9	% DM	Feedipedia
Poultry	Hatchery by product		Proximates	Ash	61.4	% DM	Feedipedia

Beef	Cattle hoof and horn meal		Proximates	Ash	5.6	% DM	Feedipedia
Lamb	Lamb hooves	Raw	Proximates	Ash	15.8	% DM	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Ash	20.9	% DM	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Ash	8.6	% DM	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Ash	7.9	% DM	Feedipedia
Animal by-products, unspecified	Liver meal	Cattle	Proximates	Ash	4.2	% DM	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Ash	10.1	% DM	Feedipedia
Animal by-products, unspecified	Liver meal	Poultry	Proximates	Ash	6.8	% DM	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Ash	14	% DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Ash	17.4	% DM	Feedipedia
Rabbit	Rabbit manure, dried	Dehydrated	Proximates	Ash	12.6	% DM	Feedipedia

Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Ash	30.5	% DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Ash	29.8	% DM	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Ash	10.6	% DM	Feedipedia
Poultry	Poultry by product meal	High protein	Proximates	Ash	5.1	% DM	Feedipedia
Poultry	Poultry feet	Chicken, raw	Proximates	Ash	20.3	% DM	Feedipedia
Poultry	Poultry heads	Chicken, raw	Proximates	Ash	20	% DM	Feedipedia
Poultry	Poultry viscera	Chicken, raw	Proximates	Ash	4.7	% DM	Feedipedia
Beef	Rumen content	Calves, fresh	Proximates	Ash	12.4	% DM	Feedipedia
Beef	Rumen content	Cattle, fresh	Proximates	Ash	13.5	% DM	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Ash	11.2	% DM	Feedipedia
Beef	Rumen content	Lambs, fresh	Proximates	Ash	12.3	% DM	Feedipedia
Shrimp	Shrimp heads	Fresh	Proximates	Ash	40.6	% DM	Feedipedia
Shrimp	Shrimp heads, dried	Dehydrated	Proximates	Ash	29.3	% DM	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Ash	21.7	% DM	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Ash	22.5	% DM	Feedipedia

Shrimp	Shrimp waste	Ensiled, fresh	Proximates	Ash	21	% DM	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Ash	17.7	% DM	Feedipedia
Snail	Snail meal	With shells	Proximates	Ash	21.7	% DM	Feedipedia
Snail	Snail meal	Without shells	Proximates	Ash	5.8	% DM	Feedipedia
Squid	Squid meal		Proximates	Ash	4.8	% DM	Feedipedia
Starfish	Starfish meal		Proximates	Ash	9.4	% DM	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Ash	26.1	% DM	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Ash	26	% DM	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Ash	27.7	% DM	Feedipedia
Toad	Toad meal		Proximates	Ash	16.5	% DM	Feedipedia
Whale	Whale meal		Proximates	Ash	14.6	% DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Ash	8.2	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Ash	7	% DM	Feedipedia
Bakery	Bakery and viennoiserie by products		Proximates	Ash	2.8	% DM	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Ash	8.9	% DM	Feedipedia

Algae	Chlorella	Dried, Chlorella spp.	Proximates	Ash	10.3	% DM	Feedipedia
Corn	Maize starch		Proximates	Ash	0.2	% DM	Feedipedia
Cassava	Cassava starch		Proximates	Ash	0.2	% DM	Feedipedia
Apple	Apple pomace	From juice making	Proximates	Ash	25.2	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace	From puree making	Proximates	Ash	37.8	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace		Proximates	Ash	24	g/kg DM	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace

Grape	Grape pomace		Proximates	Ash	74	g/kg DM	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace
Wheat	Wheat meal		Proximates	Ash	2	g/kg DM	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Sugar beet	Sugar beet molasses	From pulp	Proximates	Ash	73	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet pulp		Proximates	Ash	82	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Ash	15	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Canola	Canola meal	Average of analysed values	Proximates	Ash	75	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities

Rape	Rapeseed hulls	Purified	Proximates	Ash	56.5	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Fish, unspecified	Fish meal		Proximates	Ash	182	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Ash	50	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Ash	60	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Ash	68	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Ash	53	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Distillery by-products, unspecified	Distillers solids		Proximates	Ash	59	g/kg DM	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs

Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Ash	44	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Fish, unspecified	Fish meal	Low temperature dried	Proximates	Ash	132	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed

Wheat	Wheat gluten		Proximates	Ash	12	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed
Soy	Soy protein concentrate		Proximates	Ash	60	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed

Apple	Apple waste		Proximates	Ash	2.08	%	Cropgen database
Apple	Apple pomace	Wet	Proximates	Ash	0.9-1.4	%	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Dried	Proximates	Ash	2.0-5.6	%	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Powder	Proximates	Ash	1.82	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Proximates	Ash	3.72	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Proximates	Ash	3.72	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Proximates	Ash	3.8	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Pectin	Wet, apple pulp	Proximates	Ash	0.6	%	Handbook of poultry feed from waste: processing and use
Fish, unspecified	Fish meal	Herring, capelin, sand eel	Proximates	Ash	11	%	Alternate protein sources for salmon and trout diets

Fish, unspecified	Fish meal	Anchovy, horse mackerel	Proximates	Ash	15	%	Alternate protein sources for salmon and trout diets
Fish, unspecified	Fish meal	Menhaden	Proximates	Ash	17	%	Alternate protein sources for salmon and trout diets
Fish, unspecified	Fish processing waste		Proximates	Ash	21	%	Alternate protein sources for salmon and trout diets
Nuts, unspecified	Nut shells	Cashew	Proximates	Ash	1	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shells	Cashew, de-oiled	Proximates	Ash	0.9	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Proximates	Ash	0.01	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Proximates	Ash	0.01	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Olive	Isolated lignin from olive tree pruning	By organosolv pretreatment	Proximates	Ash	0.39	%	Biorefining of olive tree (Olea europea) pruning
Banana	Banana		Proximates	Ash	4.14	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil

Sugar cane	Sugar cane bagasse		Proximates	Ash	2.75	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sponge gourd	Sponge gourd fibers		Proximates	Ash	0.66	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sunflower	Sunflower extracted bagasse		Proximates	Ash	6.1	%	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Apple	Apple cake		Proximates	Ash	2.82	%	Cropgen database
Fruit and vegetables, unspecified	Market waste, fruit and vegetables	Mesophilic	Proximates	Ash	3	%	Cropgen database
Fruit and vegetables, unspecified	Market waste, fruit and vegetables	Thermophilic	Proximates	Ash	3	%	Cropgen database

Pineapple	Pineapple waste		Proximates	Ash	3.36	%	Cropgen database
Carrot	Carrot tops		Proximates	Ash	18	%	Utilization of fruit and vegetable wastes, FAO
Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Ash	0.93	%	Chemical characterizatio n of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Ash	0.36	%	Chemical characterizatio n of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Ash	1.44	%	Chemical characterizatio n of tomato pomace
Poultry	Poultry heads and feet	Inedbile fattened chicken slaughtering by-products	Proximates	Ash	5.26	%	Chemical characterizatio n of tomato pomace

Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Ash	3.86	%	Chemical characterizatio n of tomato pomace
Beef	Rumen content	Abattoir waste	Proximates	Ash	8.36	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Ash	11.6	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Olive	Olive stones		Proximates	Ash	0.61	%	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive stones	Carbonization solid product	Proximates	Ash	2	%	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive stones	Vacuum carbonization solid product	Proximates	Ash	2.4	%	Conversion of olive wastes to volatiles and carbon adsorbents

Olive	Olive pulp		Proximates	Ash	1.34	%	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp	Carbonization solid product	Proximates	Ash	6.2	%	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp	Vacuum carbonization solid product	Proximates	Ash	6.7	%	Conversion of olive wastes to volatiles and carbon adsorbents
Sugar by-products, unspecified	Bagasse	Slurry. Bagasse was mixed with tap water to achieve a dry solid concentration of 16.0%	Proximates	Ash	1	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Slurry. Experimental conditions: 155°C; end pressure MPa: 0.5	Proximates	Ash	1.8	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; end pressure MPa: 0.5	Proximates	Ash	2.4	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Slurry. Experimental conditions: 155°C; O2 pressure MPa: 0.6; end pressure MPa: 1.0	Proximates	Ash	1.8	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; O2 pressure MPa: 0.6; end pressure MPa: 1.0	Proximates	Ash	3.2	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Slurry. Experimental conditions: 170°C; end pressure MPa: 0.7	Proximates	Ash	1.9	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; end pressure MPa: 0.7	Proximates	Ash	2.7	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Slurry. Experimental conditions: 170°C; O2 pressure MPa: 0.6; end pressure MPa: 1.7	Proximates	Ash	1.9	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; O2 pressure MPa: 0.6; end pressure MPa: 1.7	Proximates	Ash	3.3	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Slurry. Experimental conditions: 185°C; end pressure MPa: 1.1	Proximates	Ash	1.9	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; end pressure MPa: 1.1	Proximates	Ash	2.7	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Slurry. Experimental conditions: 185°C; O2 pressure MPa: 0.6; end pressure MPa: 1.9	Proximates	Ash	2.2	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; O2 pressure MPa: 0.6; end pressure MPa: 1.9	Proximates	Ash	3.8	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Slurry. Experimental conditions: 200°C; end pressure MPa: 1.4	Proximates	Ash	2.1	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; end pressure MPa: 1.4	Proximates	Ash	3.6	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Slurry. Experimental conditions: 200°C; O2 pressure MPa: 0.6; end pressure MPa: 2.2	Proximates	Ash	1.9	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; O2 pressure MPa: 0.6; end pressure MPa: 2.2	Proximates	Ash	3	%	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Potato	Potato fibres	Pressed	Proximates	Ash	4	%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Olive	Olive husk		Proximates	Ash	7.16	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Proximates	Ash	5.8	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Proximates	Ash	4.6	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Proximates	Ash	1.72	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura

Olive	Olive mill wastewater		Proximates	Ash	8.51	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Grape	Grape waste		Proximates	Ash	5.3	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Coconut	Char from coconut shell	Char produced at 750°C	Proximates	Ash	2.9	%	ECN Phyllis 2
Grape	Char from grape residue	Residue from wine production, pyrolysis in packed bed (280-530°C deg C radial profile)	Proximates	Ash	23.9	%	ECN Phyllis 2
Rice	Char from rice hulls		Proximates	Ash	72	%	ECN Phyllis 2

Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Proximates	Ash	5.5	%	ECN Phyllis 2
Grapefruit	Grapefruit skin char	GrapefuitChar produced at 700°C from grapefruit skin	Proximates	Ash	14.6	%	ECN Phyllis 2
Orange	Orange skin char	OrangeCarbonization under N2 for 2 hours at 700°C	Proximates	Ash	17	%	ECN Phyllis 2
Poultry	Pyrolysis char from skimmings poultry processing	600°C pyrolysis	Proximates	Ash	14.97	%	ECN Phyllis 2
Olive	Char from olive husks	Pyrolysis in packed bed (280-530°C radial profile)	Proximates	Ash	13	%	ECN Phyllis 2
Olive	Char from olive husks		Proximates	Ash	7.5	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 623 K; S-Co2 = 305 m2/g	Proximates	Ash	1.15	%	ECN Phyllis 2

Olive	Char from olive pits	Char from olive stones at 873 K; S-N2 = 85 m2/g, S-CO2 = 548 m2/g	Proximates	Ash	1.58	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 1123 K; S-CO2 = 737 m2/g	Proximates	Ash	1.62	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 350°C	Proximates	Ash	2.5	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 600°C	Proximates	Ash	3.9	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 850°C	Proximates	Ash	4.2	%	ECN Phyllis 2
Rice	Rice straw char	Char from pyrolysis at 490°C	Proximates	Ash	49.9	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Proximates	Ash	37.86	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Proximates	Ash	49.55	%	ECN Phyllis 2

Wheat	Char from wheat straw	Char from fluid bed gasifier	Proximates	Ash	36.96	%	ECN Phyllis 2
Wheat	Char from wheat straw	Pyrolysis in packed bed (280-530°C radial profile)	Proximates	Ash	25	%	ECN Phyllis 2
Wheat	Wheat straw char		Proximates	Ash	17.1	%	ECN Phyllis 2
Wheat	Wheat	Whole crop. Flowering cultivar Phelivan	Proximates	Ash	3.36	%	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Phelivan	Proximates	Ash	2.42	%	ECN Phyllis 2
Wheat	Wheat	Whole crop. Dough cultivar Phelivan	Proximates	Ash	2.46	%	ECN Phyllis 2
Wheat	Wheat	Whole crop. Flowering cultivar Gonen	Proximates	Ash	3.48	%	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Gonen	Proximates	Ash	2.52	%	ECN Phyllis 2
Wheat	Wheat	Whole crop. Dough cultivar Gonen	Proximates	Ash	2.53	%	ECN Phyllis 2
Sugar cane	Sugar cane trash	Ground pellets	Proximates	Ash	10.34	%	ECN Phyllis 2

Pineapple	Pineapple		Proximates	Ash	0.1	%	ECN Phyllis 2
Sugar beet	Sugar beet		Proximates	Ash	4.8	%	ECN Phyllis 2
Sugar cane	Sugar cane leaves	Higher heating value given as 16.000-17600 kJ/kg; in Biomass and Bioenergy 13 (1997) 141-146 it is given as 17.430 kJ/kg. The higher value may apply to dry ash-free material.	Proximates	Ash	5.17	%	ECN Phyllis 2
Aubergine	Aubergine plant		Proximates	Ash	2.15	%	ECN Phyllis 2
Bean	Bean plant		Proximates	Ash	2.23	%	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Proximates	Ash	7.13	%	ECN Phyllis 2
Courgette	Courgette plant		Proximates	Ash	2.07	%	ECN Phyllis 2
Cucumber	Cucumber plant		Proximates	Ash	2.97	%	ECN Phyllis 2

Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Proximates	Ash	1.99	%	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Proximates	Ash	3.41	%	ECN Phyllis 2
Potato	Potato mash		Proximates	Ash	0.83	%	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Proximates	Ash	1.96	%	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Proximates	Ash	1.89	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Proximates	Ash	5.67	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Proximates	Ash	5.78	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Proximates	Ash	1.07	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Proximates	Ash	4.81	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Proximates	Ash	1.03	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Proximates	Ash	3.3	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Proximates	Ash	0.81	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Proximates	Ash	6.23	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Proximates	Ash	5.41	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Proximates	Ash	5.73	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Proximates	Ash	6.17	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Proximates	Ash	4.87	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Proximates	Ash	2.84	%	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Proximates	Ash	3.06	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Proximates	Ash	3.04	%	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Proximates	Ash	9.09	%	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Proximates	Ash	7.49	%	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Proximates	Ash	7.36	%	ECN Phyllis 2
Cacao/cocoa	Cacao shells	Report JOU2-CT93-0397; data from K. Lassing, E. Olsson and L. Waldheim, TPS	Proximates	Ash	8.58	%	ECN Phyllis 2
Cacao/cocoa	Cacao hulls		Proximates	Ash	8.25	%	ECN Phyllis 2
Cacao/cocoa	Cacao shell parts, shoots		Proximates	Ash	8	%	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Ash	5.1	%	ECN Phyllis 2
Coconut	Coconut shell	Coconuts shells from Madal, Mozambique	Proximates	Ash	0.47	%	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Ash	0.5	%	ECN Phyllis 2

Coconut	Coconut shell		Proximates	Ash	0.71	%	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Ash	2.96	%	ECN Phyllis 2
Coconut	Coconut shell	Charcoal yield 41.4% at 1 MPa, fixed-C yield 30.1%	Proximates	Ash	0.74	%	ECN Phyllis 2
Coconut	Coconut fibre	Coir	Proximates	Ash	17.81	%	ECN Phyllis 2
Coconut	Coconut fibre dust	Coir. Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Proximates	Ash	2.9	%	ECN Phyllis 2
Coconut	Coconut fibre dust	Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Proximates	Ash	3.72	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 4.2% (obtained with extraction with acetone/water)	Proximates	Ash	1.3	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 1, samples from Trabzon, Turkey	Proximates	Ash	0.59	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 2, samples from Trabzon, Turkey	Proximates	Ash	0.65	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 3, samples from Trabzon, Turkey	Proximates	Ash	0.94	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 4, samples from Trabzon, Turkey	Proximates	Ash	0.9	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Proximates	Ash	1.4	%	ECN Phyllis 2

Nuts, unspecified	Nut seedcoat	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 19.6% (obtained with extraction with alcohol/benzene)	Proximates	Ash	1.8	%	ECN Phyllis 2
Olive	Olive		Proximates	Ash	1.53	%	ECN Phyllis 2
Olive	Olive		Proximates	Ash	1.63	%	ECN Phyllis 2
Olive	Olive		Proximates	Ash	1.88	%	ECN Phyllis 2
Olive	Olive cake		Proximates	Ash	10.2	%	ECN Phyllis 2
Olive	Olive husk	Biochemical composition on extractive free basis. Concentration of extractives: 8.1% (obtained with extraction with alcohol/benzene)	Proximates	Ash	4	%	ECN Phyllis 2
Olive	Olive husk	Ash type: 815°C	Proximates	Ash	5	%	ECN Phyllis 2

Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Proximates	Ash	1.62	%	ECN Phyllis 2
Olive	Olive pits		Proximates	Ash	3.16	%	ECN Phyllis 2
Olive	Olive pits		Proximates	Ash	3.2	%	ECN Phyllis 2
Olive	Olive pits	S-N2 = 0,6 m2/g; S-CO2 = 53 m2/g; see for char 1825, 1826 and 1827	Proximates	Ash	0.42	%	ECN Phyllis 2
Olive	Olive residue	Oily refuse from olive processing	Proximates	Ash	5	%	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Proximates	Ash	13.95	%	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Proximates	Ash	7.51	%	ECN Phyllis 2

Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Proximates	Ash	8.47	%	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Proximates	Ash	2.35	%	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Proximates	Ash	1.39	%	ECN Phyllis 2

Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Proximates	Ash	4.35	%	ECN Phyllis 2
Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Proximates	Ash	2.24	%	ECN Phyllis 2

Olive	Orujillo	Wood matter from pressed oil stone	Proximates	Ash	5.82	%	ECN Phyllis 2
Cherry	Cherry pits		Proximates	Ash	1	%	ECN Phyllis 2
Cherry	Cherry pits		Proximates	Ash	0.85	%	ECN Phyllis 2
Coffee	Coffee husk		Proximates	Ash	3.63	%	ECN Phyllis 2
Coffee	Coffee husk		Proximates	Ash	11.61	%	ECN Phyllis 2
Peach	Peach pits		Proximates	Ash	1.03	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Proximates	Ash	1.3	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Proximates	Ash	1.3	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Proximates	Ash	1.13	%	ECN Phyllis 2
Prunes	Prune pits		Proximates	Ash	0.94	%	ECN Phyllis 2
Prunes	Prune pits		Proximates	Ash	0.5	%	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Ash	7	%	ECN Phyllis 2
Babassu	Babassu husks		Proximates	Ash	1.59	%	ECN Phyllis 2
Coffee	Coffee husk	Parchment	Proximates	Ash	0.81	%	ECN Phyllis 2
Corn	Corn bran		Proximates	Ash	3	%	ECN Phyllis 2
Cotton	Cottonseed hulls		Proximates	Ash	4	%	ECN Phyllis 2

Cotton	Cottonseed husks	Israel	Proximates	Ash	2.57	%	ECN Phyllis 2
Cotton	Cottonseed	Black	Proximates	Ash	5	%	ECN Phyllis 2
Grape	Grape seeds		Proximates	Ash	2.31	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Kukui. Charcoal yield 58.6% at 1 MPa, fixed-C yield 41.4%	Proximates	Ash	1.45	%	ECN Phyllis 2
Lemon	Lemon pellets	Lemon. Ash type: 815°C	Proximates	Ash	3.5	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Proximates	Ash	0.41	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia	Proximates	Ash	0.4	%	ECN Phyllis 2
Mustard	Mustard husk		Proximates	Ash	3.68	%	ECN Phyllis 2
Rape	Rapeseed	Usual harvest time for animal food	Proximates	Ash	9.38	% total solids	Cropgen database
Grape	Grape stalks		Proximates	Ash	7	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces

Apple	Apple pomace, dried	Dried	Proximates	Ash	3	% w/w d.b	2012FeedComp
Apple	Pectin	Extracted, apple	Proximates	Ash	5.78	% w/w d.b	Pectin from apple pomace: extraction, characterization and utilization
Palm	Palm empty fruit bunches	Oil palm empty fruit bunches before hydrothermal pretreatment	Proximates	Ash	4.4	% w/w d.b	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion
Palm	Palm empty fruit bunches	Oil palm empty fruit bunches fibres after hydrothermal pretreatment	Proximates	Ash	3.9	% w/w d.b	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion

Sunflower	Sunflower oil cake		Proximates	Ash	6.6	% w/w d.b	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake
Sugar cane	Sugar cane bagasse		Proximates	Ash	12.6	% w/w d.b	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Sugar cane	Sugar cane bagasse		Proximates	Ash	5.2	% w/w d.b	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations

Cotton	Cotton stalk		Proximates	Ash	5.1	% w/w d.b	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Sugar cane	Sugar cane bagasse		Proximates	Ash	0.2	% w/w d.b	Combined ethanol and methane production using steam pretreated sugarcane bagasse
Rice	Rice husk		Proximates	Ash	12.8	% w/w d.b	Combustion behaviour of rice husk in a bubbling fluidised bed
Sugar by-products, unspecified	Bagasse		Proximates	Ash	6.3	% w/w d.b	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Wheat	Wheat	Silage. Location: centre	Proximates	Ash	92	g/kg DM	Changes during aerobic exposure of wheat silages
Wheat	Wheat	Silage. Location: wall	Proximates	Ash	92	g/kg DM	Changes during aerobic exposure of wheat silages
Wheat	Wheat	Silage. Location: shoulder	Proximates	Ash	254	g/kg DM	Changes during aerobic exposure of wheat silages
Wheat	Wheat	Silage. Location: SEM	Proximates	Ash	74	g/kg DM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: centre	Proximates	Ash	51	g/kg DM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: wall	Proximates	Ash	62	g/kg DM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: shoulder	Proximates	Ash	120	g/kg DM	Changes during aerobic exposure of wheat silages

Corn	Corn silage	Location: SEM	Proximates	Ash	30	g/kg DM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: centre	Proximates	Ash	70	g/kg DM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: wall	Proximates	Ash	73	g/kg DM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: shoulder	Proximates	Ash	108	g/kg DM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: SEM	Proximates	Ash	34	g/kg DM	Changes during aerobic exposure of wheat silages
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Ash	45	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Ash	53	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Pears	Pear pomace		Proximates	Ash	12.2	g/kg DM	Comparative study of alkaline extraction process of hemicelluloses from pear pomace
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Ash	71	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Ash	91	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Ash	87	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Nuts, unspecified	Nut shells	Almond	Proximates	Ash	34	g/kg DM	Development of an integrated pretreatment fractionation process for fermentable sugars and lignin, application to almond shell
Barley	Barley		Proximates	Ash	24	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Soy	Soybean meal	Soyabean meal	Proximates	Ash	65	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Ash	67	g/kg DM	Wet barley distillers solids as a protein source for growing pigs

Nuts, unspecified	Nut meal	Babacu	Proximates	Ash	46	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Proximates	Ash	31	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cassava	Cassava meal		Proximates	Ash	15	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Coconut	Coconut meal	Solv	Proximates	Ash	58	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Proximates	Ash	33	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cotton	Cottonseed meal	solv	Proximates	Ash	61	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Poultry	Feather meal	Hydrolyzed	Proximates	Ash	12	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Proximates	Ash	378	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Rice	Rice bran	Defatted	Proximates	Ash	110	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Soy	Soybean meal	solv	Proximates	Ash	61	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Sugar cane	Sugar cane juice		Proximates	Ash	3	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Proximates	Ash	51	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Wheat	Wheat bran		Proximates	Ash	46	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Canola	Juncea canola meal		Proximates	Ash	73.4	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal

Chicory	Chicory root	Pulp, Chichorium intybus, Chinese cultivar 'Zhong-Hua No.1'	Proximates	Ash	4.1	%	Sequential extraction and physicochemical characterization of polysaccharides from chicory (Chichorium intybus) root pulp
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Ash	167	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Ash	151	g/kg DM	Nutritive value of plantain and chicory for pigs
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Ash	0.65	%	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Milk	Milk	Granadina goats, Spain	Proximates	Ash	0.75	%	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Proximates	Ash	1.8	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Proximates	Ash	1.1	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Apple	Apple pomace, dried		Proximates	Ash	1.6	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Potato	Potato peel		Proximates	Ash	7-8	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Tomatoes	Tomato pomace	Pulper stage of tomato processing for paste	Proximates	Ash	8.4	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	Finisher stage of tomato processing for paste	Proximates	Ash	7.8	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	Before turbopress stage of tomato processing for paste	Proximates	Ash	6.9	g/kg	Chemical characterization of tomato pomace

Tomatoes	Tomato pomace	After turbopress stage of tomato processing for paste	Proximates	Ash	8.43	g/kg	Chemical characterization of tomato pomace
Potato	Potato peel		Proximates	Ash	7.0	%	Production of alkaline protease by a thermophilic Bacillus subtilis under solid-state fermentation (SSF) condition using Imperata cylindrica grass and potato peel as low-cost medium: Characterization and application of enzyme in detergent formulation

Apricot	Apricot stones	Apricot stones as waste product of canning industry, Bulgaria	Proximates	Ash	0.19	%	ECN Phyllis 2
Potato	Potato peel	Mature potato peel - potatoes harvested after 20 weeks	Proximates	Ash	10.56	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato
Potato	Potato peel	Young potato peel - potatoes harvested after 14 weeks	Proximates	Ash	10.04	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato

Distillers grain	Distillers grain	Wet corn mash solids	Proximates	Ash	14	g/kg DM	Distillers grains as an energy source and effect of drying on protein availability
Distillers grain	Distillers corn stillage	Thin. Liquid from corn mash. Distilled, alcohol removed	Proximates	Ash	59	g/kg DM	Distillers grains as an energy source and effect of drying on protein availability
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Proximates	Ash	8.95	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Proximates	Ash	13.29	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rape	Rape straw	490 fully ripe rape straw samples collected in China	Proximates	Ash	7.30	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Proximates	Ash	5.24	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Potato	Potato peel	A review of different publications	Proximates	Ash	62.2-111	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	A review of different publications	Proximates	Ash	36	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production

Potato	Potato peel	Fermented. A review of different publications	Proximates	Ash	7.4	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	Ensiled. A review of different publications	Proximates	Ash	26-47	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	Solid fermented. A review of different publications	Proximates	Ash	24.0	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp, dried	A review of different publications	Proximates	Ash	27.0-42.3	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Proximates	Ash content at 550°C	27.46	%	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Proximates	Ash content at 550°C	12.05	%	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Proximates	Ash content at 550°C	12.29	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 400/60/0. Combustion temperature: 400°C, 60 minutes, 0% oxygen	Proximates	Ash content at 550°C	25.83	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Proximates	Ash content at 550°C	24.47	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Proximates	Ash content at 550°C	22.91	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Proximates	Ash content at 550°C	33.14	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Proximates	Ash content at 550°C	32.37	%	ECN Phyllis 2
Straw	Straw		Proximates	Ash content at 550°C	3.84	%	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Proximates	Ash content at 550°C	3	%	ECN Phyllis 2
Olive	Olive residue		Proximates	Ash content at 550°C	7.58	%	ECN Phyllis 2
Olive	Olive residue	Sample lot size: 60kg. Country: Spain	Proximates	Ash content at 550°C	10.89	%	ECN Phyllis 2
Olive	Olive residue		Proximates	Ash content at 550°C	7.66	%	ECN Phyllis 2
Millet	Millet husk		Proximates	Ash content at 550°C	8.1	%	ECN Phyllis 2
Olive	Olive waste	Country: Spain	Proximates	Ash content at 750°C	10.24	%	ECN Phyllis 2

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Proximates	Ash content at 815°C	21.85	%	ECN Phyllis 2
Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Proximates	Ash content at 815°C	10.36	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 400/60/0. Combustion temperature: 400°C, 60 minutes, 0% oxygen	Proximates	Ash content at 815°C	20.39	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Proximates	Ash content at 815°C	18.53	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Proximates	Ash content at 815°C	18.53	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Proximates	Ash content at 815°C	32.09	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Proximates	Ash content at 815°C	25.31	%	ECN Phyllis 2
Straw	Straw		Proximates	Ash content at 815°C	3.17	%	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Ash content at 815°C	0.6	%	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Proximates	Ash content at 815°C	2.28	%	ECN Phyllis 2
Grape	Grape marc		Waste compounds	Ash deformation temperature	1395	°C	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape stalks		Waste compounds	Ash deformation temperature	892	°C	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Waste compounds	Ash deformation temperature	1419	°C	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape seeds		Waste compounds	Ash deformation temperature	1328	°C	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape oil cake		Waste compounds	Ash deformation temperature	>1500	°C	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Waste compounds	Ash deformation temperature	1385	°C	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Distillery by-products, unspecified	Distillers solids	Wet	Waste compounds	Ash digestibility	83.6	%	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Grape	Grape marc		Waste compounds	Ash flow temperature	>1500	°C	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape stalks		Waste compounds	Ash flow temperature	>1500	°C	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Waste compounds	Ash flow temperature	1470	°C	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape seeds		Waste compounds	Ash flow temperature	>1500	°C	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape oil cake		Waste compounds	Ash flow temperature	>1500	°C	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Waste compounds	Ash flow temperature	>1500	°C	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Soy	Soybean meal	Soya bean	Proximates	Ash, crude	68	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed cake		Proximates	Ash, crude	63	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Ash, crude	58.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Ash, crude	76.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Ash, crude	78.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Ash, crude	69.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Ash, crude	72.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Ash, crude	68.7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Ash, crude	74.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Ash, crude	80.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Ash, crude	74	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Ash, crude	78.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Olive	Olive tree pruning		Proximates	Ash, insoluble	0.17	%	Biorefining of olive tree (Olea europea) pruning
Olive	Olive tree pruning	Solid fraction from organosolv pretreatment	Proximates	Ash, insoluble	0.22	%	Biorefining of olive tree (Olea europea) pruning
Olive	Olive tree pruning	Solid fraction after bioethanol production	Proximates	Ash, insoluble	0.7	%	Biorefining of olive tree (Olea europea) pruning
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Ash, insoluble	0.1	% DM	Feedipedia

Poultry	Feathers	Turkey	Proximates	Ash, mass fraction	0.004	MJ/kg	Bioenergy from feathers gasification - Efficiency and performance analysis
Poultry	Feathers, dry	Turkey, dry	Proximates	Ash, mass fraction	0.014	MJ/kg	Bioenergy from feathers gasification - Efficiency and performance analysis
Rape	Rapeseed hulls	Purified	Proximates	Aspartic acid	14.6	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Cabbage	Cabbage meal		Proximates	Aspartic acid	7.1	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology
Orange	Orange pulp, dried		Proximates	Aspartic acid	5.6	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Aspartic acid	25.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Aspartic acid	23.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Aspartic acid	23.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Aspartic acid	26.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Aspartic acid	23.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Aspartic acid	24	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Aspartic acid	25.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Aspartic acid	24.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rye	Seed residue		Proximates	Aspartic acid	6.99	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Aspartic acid	10.3	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Aspartic acid	6.96	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Aspartic acid	9.18	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Aspartic acid	11.3	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Sugar beet	Sugar beet pulp		Proximates	Aspartic acid	7.48	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Aspartic acid	5.11	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Aspartic acid	6.06	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Aspartic acid	26.7	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Aspartic acid	43.1	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Aspartic acid	17.3	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Aspartic acid	18.5	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Aspartic acid	5.58	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Aspartic acid	5.43	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Aspartic acid	5.5	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Aspartic acid	3.34	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Aspartic acid	9.15	% protein	Chemical characterization of tomato pomace

Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Aspartic acid	6.25	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Aspartic acid	9.2	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Aspartic acid	8.67	% protein	Chemical characterization of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Aspartic acid	7.7	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Aspartic acid	6.1	% protein	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Aspartic acid	11.3	% protein	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Aspartic acid	2.5	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Aspartic acid	6.7	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Aspartic acid	5.9	% protein	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Aspartic acid	5.9	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Aspartic acid	10.3	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Aspartic acid	8.8	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Aspartic acid	10.5	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Aspartic acid	6.8	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Aspartic acid	6.5	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Aspartic acid	5.8	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Aspartic acid	6.5	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Aspartic acid	7.9	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Aspartic acid	9	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Aspartic acid	9.3	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Aspartic acid	8.7	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Aspartic acid	8.8	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Aspartic acid	8.1	% protein	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Aspartic acid	10.1	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Aspartic acid	6.6	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Aspartic acid	6.9	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Aspartic acid	6.9	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Aspartic acid	6.5	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Aspartic acid	6.5	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Aspartic acid	6.4	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Aspartic acid	7	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Aspartic acid	4.9	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Aspartic acid	4.8	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Aspartic acid	7.4	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Aspartic acid	5.1	% protein	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Aspartic acid	4.9	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Aspartic acid	10.2	% protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Aspartic acid	7.7	% protein	Feedipedia

Cotton	Cottonseed hulls		Proximates	Aspartic acid	19.7	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Aspartic acid	9.2	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Aspartic acid	9.1	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Aspartic acid	8.9	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Aspartic acid	8.9	% protein	Feedipedia
Grape	Grape seeds		Proximates	Aspartic acid	3.5	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Aspartic acid	9.4	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Aspartic acid	10.1	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Aspartic acid	6.5	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Aspartic acid	6.9	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Aspartic acid	6.9	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Aspartic acid	8.3	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Aspartic acid	7.7	% protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Aspartic acid	8.9	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Aspartic acid	9.7	% protein	Feedipedia

Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Aspartic acid	9.9	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Aspartic acid	9.9	% protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Aspartic acid	13.6	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Aspartic acid	11.9	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Aspartic acid	12.6	% protein	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Aspartic acid	10.7	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Aspartic acid	1	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Aspartic acid	7.2	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Aspartic acid	7.7	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Aspartic acid	7.3	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Aspartic acid	7.6	% protein	Feedipedia

Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Aspartic acid	7	% protein	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Aspartic acid	9.2	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Aspartic acid	8	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Aspartic acid	8	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Aspartic acid	13.4	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Aspartic acid	9.2	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Aspartic acid	11.3	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Aspartic acid	11.4	% protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Aspartic acid	11.6	% protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Aspartic acid	11.1	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Aspartic acid	11.5	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Aspartic acid	11.2	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Aspartic acid	10.8	% protein	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Aspartic acid	8.8	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Aspartic acid	8.7	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Aspartic acid	8.9	% protein	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Aspartic acid	7.8	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Aspartic acid	8.9	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Aspartic acid	16.4	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Aspartic acid	11	% protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Aspartic acid	7.8	% protein	Feedipedia
Lemon	Lemon pulp, dried		Proximates	Aspartic acid	8.4	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Aspartic acid	7.1	% protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Aspartic acid	3	% protein	Feedipedia

Date	Date palm fruits	Phoenix dactylifera	Proximates	Aspartic acid	8.1	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Aspartic acid	6.9	% protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Aspartic acid	9.5	% protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Aspartic acid	5.9	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Aspartic acid	19.6	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Aspartic acid	5.4	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Aspartic acid	10.8	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Aspartic acid	16.7	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Aspartic acid	7.4	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Aspartic acid	6.6	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Aspartic acid	8	% protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Aspartic acid	9.4	% protein	Feedipedia

Potato	Sweet potato leaf protein concentrate		Proximates	Aspartic acid	9.1	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Aspartic acid	18.8	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Aspartic acid	7.4	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Aspartic acid	22	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Aspartic acid	7.4	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Aspartic acid	1.6	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Aspartic acid	1.2	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Aspartic acid	0.2	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Aspartic acid	7.4	% protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Aspartic acid	10.7	% protein	Feedipedia
Poultry	Feather meal		Proximates	Aspartic acid	6.7	% protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Aspartic acid	8.7	% protein	Feedipedia

Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Aspartic acid	9.1	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Aspartic acid	9.6	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Aspartic acid	9.9	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Aspartic acid	6.5	% protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Aspartic acid	7.9	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Aspartic acid	5.9	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Aspartic acid	6.1	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Aspartic acid	7.4	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Aspartic acid	7.6	% protein	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Aspartic acid	6.9	% protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Aspartic acid	11.4	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Aspartic acid	9.1	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Aspartic acid	8.5	% protein	Feedipedia

Cheese	Whey, dried	Sweet, dehydrated	Proximates	Aspartic acid	9.1	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Aspartic acid	7.8	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Aspartic acid	9	% protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Aspartic acid	9.2	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Aspartic acid	8.8	% protein	Feedipedia
Canola	Canola meal	Average of analysed values	Proximates	Aspartic acid	27	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Apple	Apple pomace		Proximates	Aspartic acid	6.88	% D AA	NOSHAN
Orange	Orange peel	Orange	Proximates	Aspartic acid	6.84	% D AA	NOSHAN
Cheese	Whey	Milk	Proximates	Aspartic acid	6.78	% D AA	NOSHAN
Hop	Hops		Proximates	Aspartic acid	9.9	% D AA	NOSHAN
Apple	Apple cake		Proximates	Aspartic acid	6.53	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Aspartic acid	5.56	% D AA	NOSHAN

Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Aspartic acid	6.5	% D AA	NOSHAN
Cabbage	Cabbage		Proximates	Aspartic acid	6.45	% D AA	NOSHAN
Cheese	Cheese	Hard	Proximates	Aspartic acid	6.96	% D AA	NOSHAN
Cheese	Cheese	Soft	Proximates	Aspartic acid	6.68	% D AA	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Aspartic acid	13.9	% D AA	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Aspartic acid	6.83	% D AA	NOSHAN
Grape	Grape pomace		Proximates	Aspartic acid	19.75	% D AA	NOSHAN
Barley	Malted barley germs		Proximates	Aspartic acid	16.3	% D AA	NOSHAN
Barley	Malted barley germs		Proximates	Aspartic acid	13.74	% D AA	NOSHAN
Mushrooms	Mushrooms		Proximates	Aspartic acid	10.77	% D AA	NOSHAN
Olive	Olive pomace		Proximates	Aspartic acid	9.68	% D AA	NOSHAN
Onion	Onion hulls		Proximates	Aspartic acid	8.08	% D AA	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Aspartic acid	7.06	% D AA	NOSHAN
Potato	Potato	Selected	Proximates	Aspartic acid	12.34	% D AA	NOSHAN
Potato	Potato skin		Proximates	Aspartic acid	17.57	% D AA	NOSHAN
Rape	Rapeseed press cake		Proximates	Aspartic acid	9.28	% D AA	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Aspartic acid	11.46	% D AA	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Aspartic acid	14.81	% D AA	NOSHAN
Tomatoes	Tomato skin		Proximates	Aspartic acid	7.14	% D AA	NOSHAN

Apple	Apple	Whole	Proximates	Aspartic acid	13.39	% D AA	NOSHAN
Pears	Pear	Whole	Proximates	Aspartic acid	12.24	% D AA	NOSHAN
Yoghurt	Yoghurt		Proximates	Aspartic acid	7.11	% D AA	NOSHAN
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Aspartic acid	9.05	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Aspartic acid	10.79	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Aspartic acid	7.83	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Aspartic acid	10.17	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Aspartic acid	9.62	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Aspartic acid	6.2	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Aspartic acid	10.16	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Aspartic acid	11.79	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Aspartic acid	8.98	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Proximates	Aspartic acid	9.45	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Proximates	Aspartic acid	5.12	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Proximates	Aspartic acid	2.08	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Proximates	Aspartic acid	7.32	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Aspartic acid	27.3	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Aspartic acid	13.0	g/kg DM	Nutritive value of plantain and chicory for pigs
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Aspartic acid	214.22	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Aspartic acid	250.15	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Aspartic acid	5.2	g/16g N	Feedipedia

Apple	Apple pomace		Proximates	Aspartic acid/Asparagine	4.58	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Aspartic acid/Asparagine	8.49	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Aspartic acid/Asparagine	9.26	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Aspartic acid/Asparagine	57.48	mg/g dry matter	NOSHAN
Apple	Apple cake		Proximates	Aspartic acid/Asparagine	4.42	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Aspartic acid/Asparagine	31.63	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Aspartic acid/Asparagine	16.58	mg/g dry matter	NOSHAN
Cabbage	Cabbage		Proximates	Aspartic acid/Asparagine	5.57	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Aspartic acid/Asparagine	26.85	mg/g dry matter	NOSHAN

Cheese	Cheese	Soft	Proximates	Aspartic acid/Asparagine	21.63	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Aspartic acid/Asparagine	40	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Aspartic acid/Asparagine	8.02	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Aspartic acid/Asparagine	5.65	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Aspartic acid/Asparagine	27.27	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Aspartic acid/Asparagine	30.54	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Aspartic acid/Asparagine	21.92	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Aspartic acid/Asparagine	3.81	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Aspartic acid/Asparagine	4.48	mg/g dry matter	NOSHAN

Onion	Onion	Slices, fresh	Proximates	Aspartic acid/Asparagine	1.81	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Aspartic acid/Asparagine	11.46	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Aspartic acid/Asparagine	11.31	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Aspartic acid/Asparagine	18.75	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Aspartic acid/Asparagine	3.56	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Aspartic acid/Asparagine	7.15	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Aspartic acid/Asparagine	3.11	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Aspartic acid/Asparagine	7.05	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Aspartic acid/Asparagine	7.67	mg/g dry matter	NOSHAN

Yoghurt	Yoghurt		Proximates	Aspartic acid/Asparagine	13.14	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Aspartic acid/Asparagine	0.72	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Aspartic acid/Asparagine	0.58	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Aspartic acid/Asparagine	0.18	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Aspartic acid/Asparagine	0.48	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Aspartic acid/Asparagine	0.16	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Aspartic acid/Asparagine	0.34	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Aspartic acid/Asparagine	0.24	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Aspartic acid/Asparagine	1.33	mg/g DM	NOSHAN

Mushrooms	Mushrooms		Proximates	Aspartic acid/Asparagine	0.83	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Aspartic acid/Asparagine	0.99	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Aspartic acid/Asparagine	0.1	mg/g DM	NOSHAN
Apple	Apple pomace		Undesirable components	Aspergillus spp	0	cfu/25g	NOSHAN
Orange	Orange peel	Orange	Undesirable components	Aspergillus spp	0	cfu/25g	NOSHAN
Cheese	Whey	Milk	Undesirable components	Aspergillus spp	0	cfu/25g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Aspergillus spp	0	cfu/25g	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Aspergillus spp	0	cfu/25g	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Aspergillus spp	0	cfu/25g	NOSHAN
Grape	Grape pomace		Undesirable components	Aspergillus spp	0	cfu/25g	NOSHAN
Mushrooms	Mushrooms		Undesirable components	Aspergillus spp	0	cfu/25g	NOSHAN
Olive	Olive pomace		Undesirable components	Aspergillus spp	0	cfu/25g	NOSHAN

Tomatoes	Tomato skin		Undesirable components	Aspergillus spp	0	cfu/25g	NOSHAN
Apple	Apple	Whole	Undesirable components	Aspergillus spp	220	cfu/25g	NOSHAN
Pears	Pear	Whole	Undesirable components	Aspergillus spp	40	cfu/25g	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Aspergillus spp	0	cfu/25g	NOSHAN
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Phytosterols	Avenasterol	0.93	mg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Apple	Apple pomace		Inorganics	Barium	4.56	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Barium	3.34	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Barium	<0.01	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Barium	5.29	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Barium	3.73	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Barium	3.82	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Barium	13.68	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Barium	5.91	ppm d.b.	NOSHAN

Cheese	Cheese	Hard	Inorganics	Barium	0.8	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Barium	0.83	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Barium	0.49	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Barium	5.63	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Barium	10.18	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Barium	<0.1	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Barium	4.04	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Barium	10.17	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Barium	39.36	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Barium	0.73	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Barium	2	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Barium	6.85	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Barium	8.75	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Barium	29.97	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Barium	2.7	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Barium	0.6	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Barium	1.39	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Barium	0.21	ppm d.b.	NOSHAN

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Barium	30.1	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Barium	26	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Barium	22.5	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Barium	178.6	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Barium	228.8	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Barium	15	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Barium	741	mg/kg DM	ECN Phyllis 2
Olive	Olive cake		Inorganics	Barium	19	mg/kg DM	ECN Phyllis 2

Poultry	Hatchery waste		Inorganics	Beryllium	<0.5	mg/kg	Composition of Australian meat chicken hatchery waste
Apple	Apple pomace		Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Orange	Orange peel	Orange	Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Cheese	Whey	Milk	Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Hop	Hops		Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Apple	Apple cake		Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Beryllium	0.15	ppm .d.b	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Cabbage	Cabbage		Inorganics	Beryllium	0.15	ppm .d.b	NOSHAN
Cheese	Cheese	Hard	Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Cheese	Cheese	Soft	Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Grape	Grape pomace		Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Barley	Malted barley germs		Inorganics	Beryllium	0.16	ppm .d.b	NOSHAN
Mushrooms	Mushrooms		Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Olive	Olive pomace		Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Onion	Onion hulls		Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN

Onion	Onion	Slices, fresh	Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Potato	Potato	Selected	Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Potato	Potato skin		Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Rape	Rapeseed press cake		Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Tomatoes	Tomato skin		Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Apple	Apple	Whole	Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Pears	Pear	Whole	Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Yoghurt	Yoghurt		Inorganics	Beryllium	<0.01	ppm .d.b	NOSHAN
Apple	Apple waste	Processing waste: filtration cake, pulp	Waste compounds	Biogas	320	LN/kg volatile solids	Online European Feedstock Atlas basis version
Apple	Apple pomace	Fresh	Waste compounds	Biogas	788	LN/kg volatile solids	Online European Feedstock Atlas basis version
Grape	Grape marc	Fresh	Waste compounds	Biogas	287	LN/kg volatile solids	Online European Feedstock Atlas basis version

Wheat	Wheat middlings		Waste compounds	Biogas	794	LN/kg volatile solids	Online European Feedstock Atlas basis version
Barley	Barley grains		Waste compounds	Biogas	752	LN/kg volatile solids	Online European Feedstock Atlas basis version
Barley	Barley, total plants silage		Waste compounds	Biogas	582	LN/kg volatile solids	Online European Feedstock Atlas basis version
Barley	Barley	Whole plant, fresh	Waste compounds	Biogas	777	LN/kg volatile solids	Online European Feedstock Atlas basis version
Wheat	Wheat grain		Waste compounds	Biogas	752	LN/kg volatile solids	Online European Feedstock Atlas basis version
Wheat	Wheat	Total plants silage	Waste compounds	Biogas	532	LN/kg volatile solids	Online European Feedstock Atlas basis version

Wheat	Wheat	Whole plant, fresh	Waste compounds	Biogas	772	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed grains		Waste compounds	Biogas	1060	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed	Total plants silage	Waste compounds	Biogas	803	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed	Whole plant, fresh	Waste compounds	Biogas	785	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sunflower	Sunflower seeds		Waste compounds	Biogas	1079	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sunflower	Sunflower	Total plants silage	Waste compounds	Biogas	478	LN/kg volatile solids	Online European Feedstock Atlas basis version

Sunflower	Sunflower	Whole plant, fresh	Waste compounds	Biogas	780	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato	Fresh	Waste compounds	Biogas	758	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato	Silage	Waste compounds	Biogas	758	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet	Beet only, fresh	Waste compounds	Biogas	759	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet	Total plants silage	Waste compounds	Biogas	681	LN/kg volatile solids	Online European Feedstock Atlas basis version
Pineapple	Pineapple		Waste compounds	Biogas	761	LN/kg volatile solids	Online European Feedstock Atlas basis version

Bakery	Bakery residues		Waste compounds	Biogas	791	LN/kg volatile solids	Online European Feedstock Atlas basis version
Barley	Barley bran		Waste compounds	Biogas	788	LN/kg volatile solids	Online European Feedstock Atlas basis version
Barley	Barley feeding meal		Waste compounds	Biogas	787	LN/kg volatile solids	Online European Feedstock Atlas basis version
Bran	Bran and cereal strip waste (70:30)	Fresh	Waste compounds	Biogas	624	LN/kg volatile solids	Online European Feedstock Atlas basis version
Cereal, unspecified	Cereal strip waste	Fresh	Waste compounds	Biogas	714	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rice	Rice feeding meal		Waste compounds	Biogas	855	LN/kg volatile solids	Online European Feedstock Atlas basis version

Wheat	Wheat bran		Waste compounds	Biogas	820	LN/kg volatile solids	Online European Feedstock Atlas basis version
Wheat	Wheat germs		Waste compounds	Biogas	828	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato products	Chip fat		Waste compounds	Biogas	320	LN/kg volatile solids	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's grains		Waste compounds	Biogas	754	LN/kg volatile solids	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's grains and yeast		Waste compounds	Biogas	700	LN/kg volatile solids	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Waste compounds	Biogas	821	LN/kg volatile solids	Online European Feedstock Atlas basis version

Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Waste compounds	Biogas	652	LN/kg volatile solids	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Waste compounds	Biogas	792	LN/kg volatile solids	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's yeast	Fresh	Waste compounds	Biogas	793	LN/kg volatile solids	Online European Feedstock Atlas basis version
Distillers grain	Distillers grain, dried	Dried, solubles only	Waste compounds	Biogas	812	LN/kg volatile solids	Online European Feedstock Atlas basis version
Distillers grain	Distillers grain, dried	Dried	Waste compounds	Biogas	819	LN/kg volatile solids	Online European Feedstock Atlas basis version
Distillers grain	Distillers grain	Fresh	Waste compounds	Biogas	831	LN/kg volatile solids	Online European Feedstock Atlas basis version

Distillery by-products, unspecified	Distillers residues	Fresh	Waste compounds	Biogas	798	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato pulp	Fresh	Waste compounds	Biogas	670	LN/kg volatile solids	Online European Feedstock Atlas basis version
Food, unspecified	Food leftovers		Waste compounds	Biogas	879	LN/kg volatile solids	Online European Feedstock Atlas basis version
Tea	Medicinal tea	Fresh	Waste compounds	Biogas	398	LN/kg volatile solids	Online European Feedstock Atlas basis version
Animal by-products, unspecified	Animal fats		Waste compounds	Biogas	1390	LN/kg volatile solids	Online European Feedstock Atlas basis version
Fish, unspecified	Fish liver meal		Waste compounds	Biogas	1010	LN/kg volatile solids	Online European Feedstock Atlas basis version

Fish, unspecified	Fish meal		Waste compounds	Biogas	857	LN/kg volatile solids	Online European Feedstock Atlas basis version
Animal by-products, unspecified	Meat waste		Waste compounds	Biogas	972	LN/kg volatile solids	Online European Feedstock Atlas basis version
Poultry	Offals	Poultry meat offals	Waste compounds	Biogas	905	LN/kg volatile solids	Online European Feedstock Atlas basis version
Corn	Maize gluten feed		Waste compounds	Biogas	792	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato chips		Waste compounds	Biogas	758	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato flakes		Waste compounds	Biogas	757	LN/kg volatile solids	Online European Feedstock Atlas basis version

Potato	Potato press water		Waste compounds	Biogas	575	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato pulp, dried	Dried	Waste compounds	Biogas	762	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato starch		Waste compounds	Biogas	759	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sweets	Residue from production of sweets		Waste compounds	Biogas	598	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet, dried	Chips	Waste compounds	Biogas	747	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar cane	Sugar cane molasses	Melasse	Waste compounds	Biogas	760	LN/kg volatile solids	Online European Feedstock Atlas basis version

Sugar cane	Sugar cane molasses	Chips, melasse	Waste compounds	Biogas	761	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet molasses residues		Waste compounds	Biogas	777	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet pulp, dried	Dried	Waste compounds	Biogas	761	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet pulp	Fresh	Waste compounds	Biogas	757	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet pulp	Silage	Waste compounds	Biogas	766	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet scraps		Waste compounds	Biogas	663	LN/kg volatile solids	Online European Feedstock Atlas basis version

Sugar beet	Sugar beet taproots		Waste compounds	Biogas	970	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar	Sugar for feeding		Waste compounds	Biogas	751	LN/kg volatile solids	Online European Feedstock Atlas basis version
Coconut	Coconut cake/expeller		Waste compounds	Biogas	815	LN/kg volatile solids	Online European Feedstock Atlas basis version
Coconut	Coconut meal	Extraction meal	Waste compounds	Biogas	788	LN/kg volatile solids	Online European Feedstock Atlas basis version
Cotton	Cottonseed cake/expeller		Waste compounds	Biogas	830	LN/kg volatile solids	Online European Feedstock Atlas basis version
Cotton	Cottonseed extraction meal		Waste compounds	Biogas	794	LN/kg volatile solids	Online European Feedstock Atlas basis version

Flax/linseed	Flax cake/expeller		Waste compounds	Biogas	820	LN/kg volatile solids	Online European Feedstock Atlas basis version
Flax/linseed	Flax extraction meal		Waste compounds	Biogas	795	LN/kg volatile solids	Online European Feedstock Atlas basis version
Hemp	Hemp press cake	Fresh	Waste compounds	Biogas	119	LN/kg volatile solids	Online European Feedstock Atlas basis version
Corn	Maize germ cake/expeller		Waste compounds	Biogas	800	LN/kg volatile solids	Online European Feedstock Atlas basis version
Olive	Olive pulp		Waste compounds	Biogas	293	LN/kg volatile solids	Online European Feedstock Atlas basis version
Palm	Palm kernel cake/expeller		Waste compounds	Biogas	818	LN/kg volatile solids	Online European Feedstock Atlas basis version

Palm	Palm kernel meal	Extraction meal	Waste compounds	Biogas	780	LN/kg volatile solids	Online European Feedstock Atlas basis version
Nuts, unspecified	Nut cake/expeller	Peanut	Waste compounds	Biogas	831	LN/kg volatile solids	Online European Feedstock Atlas basis version
Nuts, unspecified	Nut extraction meal	Peanut	Waste compounds	Biogas	789	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed		Waste compounds	Biogas	660	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed cake/expeller		Waste compounds	Biogas	850	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed meal	Extraction meal	Waste compounds	Biogas	792	LN/kg volatile solids	Online European Feedstock Atlas basis version

Safflower	Safflower meal	Extraction meal	Waste compounds	Biogas	779	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sesame	Sesame meal	Extraction meal	Waste compounds	Biogas	792	LN/kg volatile solids	Online European Feedstock Atlas basis version
Soy	Soybean meal	Extraction meal	Waste compounds	Biogas	791	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sunflower	Sunflower cake/expeller		Waste compounds	Biogas	828	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sunflower	Sunflower meal	Extraction meal	Waste compounds	Biogas	792	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sunflower	Sunflower peelings		Waste compounds	Biogas	447	LN/kg volatile solids	Online European Feedstock Atlas basis version

Sugar beet	Sugar beet leaves	Fresh, for feeding	Waste compounds	Biogas	779	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet leaves	Silage, for feeding	Waste compounds	Biogas	782	LN/kg volatile solids	Online European Feedstock Atlas basis version
Corn	Maize strip waste		Waste compounds	Biogas	930	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed straw		Waste compounds	Biogas	458	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed strip waste		Waste compounds	Biogas	627	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet leaves and tops	Silage	Waste compounds	Biogas	642	LN/kg volatile solids	Online European Feedstock Atlas basis version

Sugar beet	Sugar beet leaves	Silage	Waste compounds	Biogas	783	LN/kg volatile solids	Online European Feedstock Atlas basis version
Wheat	Wheat straw		Waste compounds	Biogas	415	LN/kg volatile solids	Online European Feedstock Atlas basis version
Wheat	Wheat strip waste		Waste compounds	Biogas	854	LN/kg volatile solids	Online European Feedstock Atlas basis version
Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Biological oxygen demand	1300-2300	mg/l	Waste treatment and by-products: The Science of poultry and meat processing
Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Biological oxygen demand	2200-9800	mg/l	Waste treatment and by-products: The Science of poultry and meat processing

Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Biological oxygen demand	1730	mg/l	Waste treatment and by-products: The Science of poultry and meat processing
Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Biological oxygen demand	2030-4200	mg/l	Waste treatment and by-products: The Science of poultry and meat processing
Abattoir wastes, unspecified	Abattoir raw effluent		Waste compounds	Biological oxygen demand, 5 day (BOD5)	10836	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Waste compounds	Biological oxygen demand, 5 day (BOD5)	961	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Waste compounds	Biological oxygen demand, 5 day (BOD5)	1003	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Waste compounds	Biological oxygen demand, 5 day (BOD5)	1211	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Waste compounds	Biological oxygen demand, 5 day (BOD5)	2862	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Waste compounds	Biological oxygen demand, 5 day (BOD5)	9	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Waste compounds	Biological oxygen demand, 5 day (BOD5)	6.5	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Waste compounds	Biological oxygen demand, 5 day (BOD5)	3.2	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Waste compounds	Biological oxygen demand, 5 day (BOD5)	11.9	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Waste compounds	Biological oxygen demand, 5 day (BOD5)	3.4	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Waste compounds	Biological oxygen demand, 5 day (BOD5)	5.3	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Waste compounds	Biological oxygen demand, 5 day (BOD5)	4.9	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Slaughterhouse wastewater		Waste compounds	Biological oxygen demand, 5 day (BOD5)	1000-4000	mg/l	Anaerobic treatment of slaughterhouse waste and wastewater

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Biotin	0.9	µg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Lemon	Lemon peel	Fresh	Vitamins	Biotin	0.135	mg/kg DM	Citrus by-products as ruminant feeds: A review
Apple	Apple pomace		Inorganics	Bismuth	<0.01	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Bismuth	0.15	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Bismuth	0.12	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Bismuth	0.15	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Bismuth	0.15	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Bismuth	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Bismuth	<0.01	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Bismuth	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Bismuth	0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Bismuth	0.58	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Bismuth	0.36	ppm d.b.	NOSHAN

Grape	Grape pomace		Inorganics	Bismuth	0.14	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Bismuth	0.27	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Bismuth	0.14	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Bismuth	0.16	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Bismuth	0.21	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Bismuth	0.15	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Bismuth	0.16	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Bismuth	0.15	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Bismuth	<0.01	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Bismuth	0.15	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Bismuth	<0.1	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Bismuth	<0.1	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Bismuth	<0.1	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Bismuth	0.15	ppm d.b.	NOSHAN

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Boron	130	mg/kg DM	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Boron	87	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Boron	73	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Boron	47.2	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Boron	5	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Boron	95	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Boron	81	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Boron	2.7	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Boron	19.9	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Boron	28.3	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Boron	35	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Boron	16.3	mg/kg DM	ECN Phyllis 2
Poultry	Hatchery waste		Inorganics	Boron	1	mg/kg	Composition of Australian meat chicken hatchery waste

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Boron	5.22	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Boron	5.03	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Boron	2.49	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Boron	4.93	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Inorganics	Boron	4.12	mg/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Boron	3.5	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Boron	2.5	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Boron	2.0	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Boron	2.1	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Bromine	74.1	mg/kg	ECN Phyllis 2
Straw	Straw		Inorganics	Bromine	0	mg/kg	ECN Phyllis 2

Bamboo	Bamboo shoot shells		Waste compounds	Buffering capacity	588	mEinstein/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Rice	Rice straw		Waste compounds	Buffering capacity	149	mEinstein/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep

Wheat	Wheat bran		Waste compounds	Buffering capacity	320	mEinstein/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Rice	Rice husk		Waste compounds	Bulk density	98	kg/Nm3	Combustion behaviour of rice husk in a bubbling fluidised bed

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Waste compounds	Bulk density	113	kg/m3	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Waste compounds	Bulk density	207	kg/m3	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Waste compounds	Bulk density	102	kg/m3	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 400/60/0. Combustion temperature: 400°C, 60 minutes, 0% oxygen	Waste compounds	Bulk density	197	kg/m3	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	Bulk density	150	kg/m3	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	Bulk density	136	kg/m3	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Waste compounds	Bulk density	100	kg/m3	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Waste compounds	Bulk density	100	kg/m3	ECN Phyllis 2

Sugar cane	Sugar cane leaves	Higher heating value given as 16.000-17600 kJ/kg; in Biomass and Bioenergy 13 (1997) 141-146 it is given as 17.430 kJ/kg. The higher value may apply to dry ash-free material.	Waste compounds	Bulk density	40	kg/m3	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Waste compounds	Bulk density	90	kg/m3	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 1, samples from Trabzon, Turkey	Waste compounds	Bulk density	327	kg/m3	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 2, samples from Trabzon, Turkey	Waste compounds	Bulk density	311	kg/m3	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 3, samples from Trabzon, Turkey	Waste compounds	Bulk density	320	kg/m3	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 4, samples from Trabzon, Turkey	Waste compounds	Bulk density	318	kg/m3	ECN Phyllis 2
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Waste compounds	Bulk density	0.68	N/A	Chemical characterizatio n of tomato pomace
Animal by-products, unspecified	Blood	Poultry. Inedbile fattened chicken slaughtering by-products	Waste compounds	Bulk density	1.03	N/A	Chemical characterizatio n of tomato pomace
Poultry	Poultry fats	Inedbile fattened chicken slaughtering by-products	Waste compounds	Bulk density	0.78	N/A	Chemical characterizatio n of tomato pomace

Poultry	Poultry feet	Inedbile fattened chicken slaughtering by-products	Waste compounds	Bulk density	0.54	N/A	Chemical characterizatio n of tomato pomace
Poultry	Poultry heads	Inedbile fattened chicken slaughtering by-products	Waste compounds	Bulk density	0.79	N/A	Chemical characterizatio n of tomato pomace
Poultry	Offals	Poultry guts. Inedbile fattened chicken slaughtering by-products	Waste compounds	Bulk density	0.79	N/A	Chemical characterizatio n of tomato pomace
Poultry	Offals	Soft poultry. Inedbile fattened chicken slaughtering by-products	Waste compounds	Bulk density	0.87	N/A	Chemical characterizatio n of tomato pomace

Babassu	Babassu cake		Waste compounds	Bulk density after packing	564.8	kg/m²	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Canola	Canola cake		Waste compounds	Bulk density after packing	492.7	kg/m²	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Castor	Castor seed cake		Waste compounds	Bulk density after packing	375.6	kg/m²	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Sunflower	Sunflower cake		Waste compounds	Bulk density after packing	619.2	kg/m²	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Babassu	Babassu cake		Waste compounds	Bulk density before packing	448.9	kg/m²	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Canola	Canola cake		Waste compounds	Bulk density before packing	403.6	kg/m²	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Castor	Castor seed cake		Waste compounds	Bulk density before packing	244.6	kg/m²	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower cake		Waste compounds	Bulk density before packing	539.1	kg/m²	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Bamboo	Bamboo shoot shells	Ensiled	Waste compounds	Butyrate	ND	g/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Organic acids	Butyric acid	1.41	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Organic acids	Butyric acid	1.09	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Organic acids	Butyric acid	0.82	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Organic acids	Butyric acid	1.95	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Orange	Orange peel silage		Organic acids	Butyric acid	1.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp silage		Organic acids	Butyric acid	0.5	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Fresh	Organic acids	Butyric acid	0.2	g/kg DM	Citrus by-products as ruminant feeds: A review

Sugar by-products, unspecified	Wastewater	1h settled	Organic acids	Butyric acid	46	mg/l	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters
Barley	Malted barley germs		SFA per 100gFA	C10:0	0.06	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C10:0	0.29	g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		SFA per 100gFA	C12:0	0.06	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C12:0	0.25	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C12:0	0.34	g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		SFA per 100gFA	C14:0	0.32	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C14:0	0.46	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C14:0	0.76	g	NOSHAN
Olive	Olive pomace		SFA per 100gFA	C14:0	0.05	g	NOSHAN
Rape	Rapeseed press cake		SFA per 100gFA	C14:0	0.09	g	NOSHAN

Distillery by-products, unspecified	Distillers solids		SFA per 100gFA	C14:0	0.5	g	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Distillery by-products, unspecified	Distillers solids		SFA per 100gFA	C15:0	0.1	g	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs

Wheat	Wheat meal		SFA per 100gFA	C16:0	182	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Grape	Grape oil		SFA per 100gFA	C16:0	65	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro

Wheat	Wheat meal		SFA per 100gFA	C16:0	182	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Brewer's yeast/grains, unspecified	Brewing cake		SFA per 100gFA	C16:0	26.14	g/kg fatty acids	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C16:0	12.04	g/kg fatty acids	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C16:0	22.46	g/kg fatty acids	NOSHAN
Olive	Olive pomace		SFA per 100gFA	C16:0	9.01	g/kg fatty acids	NOSHAN
Rape	Rapeseed press cake		SFA per 100gFA	C16:0	5.8	g/kg fatty acids	NOSHAN
Grain, unspecified	Oil extracted from distillers dried grains with soluble		SFA per 100gFA	C16:0	12.9	g/kg fatty acids	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains

Argan	Argan fruit pulp	Dried, Argania spinosa	SFA per 100gFA	C16:0	24.5	g/kg fatty acids	Feedipedia
Distillery by-products, unspecified	Distillers solids		SFA per 100gFA	C16:0	26.6	g	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Nuts, unspecified	Nut kernels	Cashew	SFA per 100gFA	C16:0	8.8	g	Feedipedia
Flax/linseed	Linseeds		SFA per 100gFA	C16:0	6.1	g	Feedipedia
Sesame	Sesame meal	Mechanical extraction	SFA per 100gFA	C16:0	9	g	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	SFA per 100gFA	C16:0	11.3	g	Feedipedia

Grape	Grape seed oil		SFA per 100gfood	C16:0 Palmitic acid	6.6	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato seed oil		SFA per 100gfood	C16:0 Palmitic acid	14	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Wheat	Wheat meal		MUFA per 100gFA	C16:1	4	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro

Grape	Grape oil		MUFA per 100gFA	C16:1	1	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Wheat	Wheat meal		MUFA per 100gFA	C16:1	4	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Brewer's yeast/grains, unspecified	Brewing cake		MUFA per 100gFA	C16:1	0.22	g	NOSHAN
Barley	Malted barley germs		MUFA per 100gFA	C16:1	0.6	g	NOSHAN
Barley	Malted barley germs		MUFA per 100gFA	C16:1	1.05	g	NOSHAN

Olive	Olive pomace		MUFA per 100gFA	C16:1	0.42	g	NOSHAN
Rape	Rapeseed press cake		MUFA per 100gFA	C16:1	0.73	g	NOSHAN
Grain, unspecified	Oil extracted from distillers dried grains with soluble		MUFA per 100gFA	C16:1	0.1	g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Brewer's yeast/grains, unspecified	Brewing cake		SFA per 100gFA	C17:0	0.1	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C17:0	0.11	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C17:0	0.31	g	NOSHAN
Olive	Olive pomace		SFA per 100gFA	C17:0	0.18	g	NOSHAN
Rape	Rapeseed press cake		SFA per 100gFA	C17:0	0.06	g	NOSHAN

Distillery by-products, unspecified	Distillers solids		SFA per 100gFA	C17:0	0.1	g	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Distillery by-products, unspecified	Distillers solids		PUFA per 100gFA	C18: 3 cis n-3	5.6	g	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs

Wheat	Wheat meal		SFA per 100gFA	C18:0	8	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Grape	Grape oil		SFA per 100gFA	C18:0	38	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro

Wheat	Wheat meal		SFA per 100gFA	C18:0	8	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Brewer's yeast/grains, unspecified	Brewing cake		SFA per 100gFA	C18:0	2.18	g/kg fatty acids	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C18:0	2.51	g/kg fatty acids	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C18:0	1.75	g/kg fatty acids	NOSHAN
Olive	Olive pomace		SFA per 100gFA	C18:0	3.11	g/kg fatty acids	NOSHAN
Rape	Rapeseed press cake		SFA per 100gFA	C18:0	1.89	g/kg fatty acids	NOSHAN
Grain, unspecified	Oil extracted from distillers dried grains with soluble		SFA per 100gFA	C18:0	1.8	g/kg fatty acids	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains

Distillery by-products, unspecified	Distillers solids		SFA per 100gFA	C18:0	2.7	g/kg fatty acids	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Argan	Argan fruit pulp	Dried, Argania spinosa	SFA per 100gFA	C18:0	4.9	g	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	SFA per 100gFA	C18:0	7.9	g	Feedipedia
Flax/linseed	Linseeds		SFA per 100gFA	C18:0	3.6	g	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	SFA per 100gFA	C18:0	1.7	g	Feedipedia
Sesame	Sesame meal	Mechanical extraction	SFA per 100gFA	C18:0	6.7	g	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	SFA per 100gFA	C18:0	3.6	g	Feedipedia

Grape	Grape seed oil		SFA per 100gfood	C18:0 Stearic acid	4.1	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato seed oil		SFA per 100gfood	C18:0 Stearic acid	5	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Brewer's yeast/grains, unspecified	Brewing cake		MUFA per 100gFA	C18:1	20.52	g	NOSHAN
Barley	Malted barley germs		MUFA per 100gFA	C18:1	53.6	g	NOSHAN
Barley	Malted barley germs		MUFA per 100gFA	C18:1	13.02	g	NOSHAN
Olive	Olive pomace		MUFA per 100gFA	C18:1	74.78	g	NOSHAN
Rape	Rapeseed press cake		MUFA per 100gFA	C18:1	61.58	g	NOSHAN

Grain, unspecified	Oil extracted from distillers dried grains with soluble		MUFA per 100gFA	C18:1	28.1	g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Argan	Argan fruit pulp	Dried, Argania spinosa	MUFA per 100gFA	C18:1	13.8	g	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	MUFA per 100gFA	C18:1	60.3	g	Feedipedia
Flax/linseed	Linseeds		MUFA per 100gFA	C18:1	18.4	g	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	MUFA per 100gFA	C18:1	59.9	g	Feedipedia
Sesame	Sesame meal	Mechanical extraction	MUFA per 100gFA	C18:1	39.3	g	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	MUFA per 100gFA	C18:1	22.9	g	Feedipedia

Grape	Grape seed oil		MUFA per 100gfood	C18:1 Oleic acid	17	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato seed oil		MUFA per 100gfood	C18:1 Oleic acid	21	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Wheat	Wheat meal		MUFA per 100gFA	C18:1 n9	149	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro

Grape	Grape oil		MUFA per 100gFA	C18:1 n9	177	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Distillery by-products, unspecified	Distillers solids		MUFA per 100gFA	C18:1n-9 cis/trans	11.9	g	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Brewer's yeast/grains, unspecified	Brewing cake		PUFA per 100gFA	C18:2	42.54	g	NOSHAN
Barley	Malted barley germs		PUFA per 100gFA	C18:2	19.8	g	NOSHAN
Barley	Malted barley germs		PUFA per 100gFA	C18:2	39.09	g	NOSHAN

Olive	Olive pomace		PUFA per 100gFA	C18:2	10	g	NOSHAN
Rape	Rapeseed press cake		PUFA per 100gFA	C18:2	19.59	g	NOSHAN
Grain, unspecified	Oil extracted from distillers dried grains with soluble		PUFA per 100gFA	C18:2	55.5	g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Argan	Argan fruit pulp	Dried, Argania spinosa	PUFA per 100gFA	C18:2	30.2	g	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	PUFA per 100gFA	C18:2	21.5	g	Feedipedia
Flax/linseed	Linseeds		PUFA per 100gFA	C18:2	15.8	g	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	PUFA per 100gFA	C18:2	20.6	g	Feedipedia
Sesame	Sesame meal	Mechanical extraction	PUFA per 100gFA	C18:2	44.5	g	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	PUFA per 100gFA	C18:2	53.6	g	Feedipedia

Grape	Grape seed oil		PUFA per 100gfood	C18:2 Linoleic acid	71.2	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato seed oil		PUFA per 100gfood	C18:2 Linoleic acid	57	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Grape	Grape seeds		PUFA per 100gfood	C18:2 Linoleic acid	9-13	%	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato seed oil		PUFA per 100gfood	C18:2 Linoleic acid	1	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Distillery by-products, unspecified	Distillers solids		PUFA per 100gFA	C18:2 cis n-6	47.3	g	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Wheat	Wheat meal		PUFA per 100gFA	C18:2 linoleic	564	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro

Grape	Grape oil		PUFA per 100gFA	C18:2 linoleic	696	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Brewer's yeast/grains, unspecified	Brewing cake		PUFA per 100gFA	C18:3	4.18	g	NOSHAN
Grain, unspecified	Oil extracted from distillers dried grains with soluble		PUFA per 100gFA	C18:3	1.2	g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Argan	Argan fruit pulp	Dried, Argania spinosa	PUFA per 100gFA	C18:3	12.7	g	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	PUFA per 100gFA	C18:3	0.5	g	Feedipedia
Flax/linseed	Linseeds		PUFA per 100gFA	C18:3	55.7	g	Feedipedia

Rape	Rapeseed	Low erucic, low glucosinolates	PUFA per 100gFA	C18:3	10.1	g	Feedipedia
Sesame	Sesame meal	Mechanical extraction	PUFA per 100gFA	C18:3	0.5	g	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	PUFA per 100gFA	C18:3	7.8	g	Feedipedia
Wheat	Wheat meal		PUFA per 100gFA	C18:3 alpha linolenic	61	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro

Grape	Grape oil		PUFA per 100gFA	C18:3 alpha linolenic	3	g/kg fatty acids	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Barley	Malted barley germs		PUFA per 100gFA	C18:3 alpha linolenic	6.38	g/kg fatty acids	NOSHAN
Barley	Malted barley germs		PUFA per 100gFA	C18:3 alpha linolenic	15.49	g/kg fatty acids	NOSHAN
Olive	Olive pomace		PUFA per 100gFA	C18:3 alpha linolenic	0.91	g/kg fatty acids	NOSHAN
Rape	Rapeseed press cake		PUFA per 100gFA	C18:3 alpha linolenic	7.5	g/kg fatty acids	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		SFA per 100gFA	C20:0	0.44	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C20:0	0.71	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C20:0	0.7	g	NOSHAN
Olive	Olive pomace		SFA per 100gFA	C20:0	0.47	g	NOSHAN

Rape	Rapeseed press cake		SFA per 100gFA	C20:0	0.65	g	NOSHAN
Grain, unspecified	Oil extracted from distillers dried grains with soluble		SFA per 100gFA	C20:0	0.3	g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Distillery by-products, unspecified	Distillers solids		SFA per 100gFA	C20:0	0.2	g	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Brewer's yeast/grains, unspecified	Brewing cake		MUFA per 100gFA	C20:1	1.13	g	NOSHAN
Barley	Malted barley germs		MUFA per 100gFA	C20:1	1.4	g	NOSHAN
Barley	Malted barley germs		MUFA per 100gFA	C20:1	1.12	g	NOSHAN

Olive	Olive pomace		MUFA per 100gFA	C20:1	0.35	g	NOSHAN
Rape	Rapeseed press cake		MUFA per 100gFA	C20:1	0.97	g	NOSHAN
Grain, unspecified	Oil extracted from distillers dried grains with soluble		MUFA per 100gFA	C20:1	0	g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Distillery by-products, unspecified	Distillers solids		MUFA per 100gFA	C20:1 n9	0.9	g	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Brewer's yeast/grains, unspecified	Brewing cake		PUFA per 100gFA	C20:2	0.23	g	NOSHAN
Barley	Malted barley germs		PUFA per 100gFA	C20:2	0.15	g	NOSHAN

Barley	Malted barley germs		PUFA per 100gFA	C20:2	0.42	g	NOSHAN
Rape	Rapeseed press cake		PUFA per 100gFA	C20:2	0.11	g	NOSHAN
Barley	Malted barley germs		PUFA per 100gFA	C20:3	0.09	g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		SFA per 100gFA	C22:0	0.36	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C22:0	0.62	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C22:0	1.07	g	NOSHAN
Olive	Olive pomace		SFA per 100gFA	C22:0	0.21	g	NOSHAN
Distillery by-products, unspecified	Distillers solids		SFA per 100gFA	C22:0	0.2	g	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs

Brewer's yeast/grains, unspecified	Brewing cake		MUFA per 100gFA	C22:1	0.8	g	NOSHAN
Barley	Malted barley germs		MUFA per 100gFA	C22:1	0.6	g	NOSHAN
Barley	Malted barley germs		MUFA per 100gFA	C22:1	0.76	g	NOSHAN
Olive	Olive pomace		MUFA per 100gFA	C22:1	0.72	g	NOSHAN
Rape	Rapeseed press cake		MUFA per 100gFA	C22:1	0.19	g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		SFA per 100gFA	C24:0	0.29	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C24:0	0.68	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C24:0	0.72	g	NOSHAN
Olive	Olive pomace		SFA per 100gFA	C24:0	0.11	g	NOSHAN
Rape	Rapeseed press cake		SFA per 100gFA	C24:0	0.16	g	NOSHAN

Distillery by-products, unspecified	Distillers solids		SFA per 100gFA	C24:0	0.2	g	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Brewer's yeast/grains, unspecified	Brewing cake		MUFA per 100gFA	C24:1	0.21	g	NOSHAN
Barley	Malted barley germs		MUFA per 100gFA	C24:1	0.57	g	NOSHAN
Barley	Malted barley germs		MUFA per 100gFA	C24:1	0.63	g	NOSHAN
Rape	Rapeseed press cake		MUFA per 100gFA	C24:1	0.22	g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		SFA per 100gFA	C6:0	0.07	g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		SFA per 100gFA	C8:0	0.2	g	NOSHAN
Barley	Malted barley germs		SFA per 100gFA	C8:0	0.09	g	NOSHAN

Apple	Apple cake		Undesirable components	Cadaverine	<1	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Undesirable components	Cadaverine	<1	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Cadaverine	5.2	mg/kg	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Cadaverine	5.4	mg/kg	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Cadaverine	<1	mg/kg	NOSHAN
Cheese	Cheese	Soft and hard	Undesirable components	Cadaverine	33.1	mg/kg	NOSHAN
Cucumber	Cucumber	Sour	Undesirable components	Cadaverine	29.7	mg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Cadaverine	5.4	mg/kg	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	Cadaverine	244.4	mg/kg	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Cadaverine	<1	mg/kg	NOSHAN
Fish, unspecified	Fish	Raw, fresh	Undesirable components	Cadaverine	330	µg/g	Alternate protein sources for salmon and trout diets

Fish, unspecified	Fish	Raw, moderately fresh	Undesirable components	Cadaverine	1000	µg/g	Alternate protein sources for salmon and trout diets
Fish, unspecified	Fish	Raw, stale	Undesirable components	Cadaverine	1600	µg/g	Alternate protein sources for salmon and trout diets
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Cadmium	0.22	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Cadmium	0.42	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Grape	Grape marc		Inorganics	Cadmium	0.19	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape stalks		Inorganics	Cadmium	0.37	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Inorganics	Cadmium	0.07	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape seeds		Inorganics	Cadmium	0.47	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape oil cake		Inorganics	Cadmium	0.23	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Inorganics	Cadmium	0.08	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato peel		Inorganics	Cadmium	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato seed		Inorganics	Cadmium	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Inorganics	Cadmium	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato meal		Inorganics	Cadmium	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato residues, dried	Dry	Inorganics	Cadmium	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Inorganics	Cadmium	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Cadmium	0	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Cadmium	0.2	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Cadmium	0	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Cadmium	0.2	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Cadmium	0.2	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Cadmium	0	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Cadmium	0.3	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Cadmium	0.2	mg/kg DM	ECN Phyllis 2
Apple	Apple	Average of 50 samples	Inorganics	Cadmium	0	mg/kg DM	ECN Phyllis 2
Apple	Apple		Inorganics	Cadmium	0	mg/kg DM	ECN Phyllis 2
Apple	Apple	Cox	Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2
Brussels sprouts	Brussels sprouts		Inorganics	Cadmium	0.4	mg/kg DM	ECN Phyllis 2
Brussels sprouts	Brussels sprouts		Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2
Carrot	Carrot	Average of 46 samples	Inorganics	Cadmium	0.5	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Cadmium	0.2	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Cadmium	1.1	mg/kg DM	ECN Phyllis 2

Cauliflower	Cauliflower	Average of 35 samples	Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2
Cauliflower	Cauliflower		Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber	Average of 46 samples	Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2
Leek	Leek		Inorganics	Cadmium	0.3	mg/kg DM	ECN Phyllis 2
Leek	Leek		Inorganics	Cadmium	0.2	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce	Average of 54 samples	Inorganics	Cadmium	0.9	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce	Average of 21 samples	Inorganics	Cadmium	1	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce	Average of 41 samples	Inorganics	Cadmium	0.2	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce	Average of 15 samples	Inorganics	Cadmium	0.3	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Cadmium	1.1	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Cadmium	0.9	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Cadmium	0.8	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Cadmium	0.7	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Cadmium	0.5	mg/kg DM	ECN Phyllis 2
Onion	Onion		Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2
Potato	Potato	Average of 55 samples	Inorganics	Cadmium	0.2	mg/kg DM	ECN Phyllis 2
Potato	Potato	Average of 40 samples	Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2

Potato	Potato	Average of 30 samples	Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet	Average of 19 samples	Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet	Average of 3 samples	Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet		Inorganics	Cadmium	0.2	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet		Inorganics	Cadmium	0.3	mg/kg DM	ECN Phyllis 2
Cabbage	Cabbage	Red. Average of 25 samples	Inorganics	Cadmium	0	mg/kg DM	ECN Phyllis 2
Cabbage	Cabbage	Red. Average of 19 samples	Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 6 samples	Inorganics	Cadmium	2.2	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 36 samples	Inorganics	Cadmium	1.1	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 40 samples	Inorganics	Cadmium	1.2	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 38 samples	Inorganics	Cadmium	0.6	mg/kg DM	ECN Phyllis 2
Spinach	Spinach		Inorganics	Cadmium	1.2	mg/kg DM	ECN Phyllis 2
Spinach	Spinach		Inorganics	Cadmium	1.6	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Cadmium	1.5	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Cadmium	0.1	mg/kg DM	ECN Phyllis 2

Sugar beet	Sugar beet		Inorganics	Cadmium	0	mg/kg ash	ECN Phyllis 2
Poultry	Hatchery waste		Inorganics	Cadmium	<0.5	mg/kg	Composition of Australian meat chicken hatchery waste
Apple	Apple pomace		Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Cadmium	0.04	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN

Onion	Onion hulls		Inorganics	Cadmium	0.2	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Cadmium	0.26	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Cadmium	0.45	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Cadmium	<0.01	ppm d.b.	NOSHAN
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Cadmium	0.42	ppm	Utilization of fruit and vegetable wastes, FAO
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Cadmium	<0.25	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations
Apple	Apple pomace		Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN

Cheese	Whey	Milk	Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Caesium	0.1	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Caesium	0.2	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Caesium	0.11	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Caesium	1.12	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Caesium	0.16	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Caesium	<0.01	ppm d.b.	NOSHAN
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Cinnamic acid derivatives	Caffeic acid	7.3	mg/l	eBASIS - average of available values
Grape	Grape cane	Alphone Lavallee	Cinnamic acid derivatives	Caffeic acid	1.2	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Cinnamic acid derivatives	Caffeic acid	1.52	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Cinnamic acid derivatives	Caffeic acid	1.04	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Hafizali	Cinnamic acid derivatives	Caffeic acid	1.14	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Cinnamic acid derivatives	Caffeic acid	0.58	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Isabella	Cinnamic acid derivatives	Caffeic acid	1.78	µg/100g cane	Chemical composition of grape canes

Grape	Grape cane	Italia	Cinnamic acid derivatives	Caffeic acid	1.28	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Cinnamic acid derivatives	Caffeic acid	1.08	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Cinnamic acid derivatives	Caffeic acid	1.9	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Cinnamic acid derivatives	Caffeic acid	1.04	µg/100g cane	Chemical composition of grape canes
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Cinnamic acid derivatives	Caffeic acid	0.07	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Cinnamic acid derivatives	Caffeic acid	0.03	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Potato	Potato peel	Potato peel waste extracted using methanol 4 degrees C	Cinnamic acid derivatives	Caffeic acid	2.49	mg/100g	Phenolics in Aqueous Potato Peel Extract: Extraction, Identification and Degradation
Potato	Potato peel	Potato peel waste extracted using water 25 degrees C	Cinnamic acid derivatives	Caffeic acid	2.68	mg/100g	Phenolics in Aqueous Potato Peel Extract: Extraction, Identification and Degradation

Potato	Potato peel	Potato peel waste extracted using water 100 degrees C refluxed	Cinnamic acid derivatives	Caffeic acid	1.36	mg/100g	Phenolics in Aqueous Potato Peel Extract: Extraction, Identification and Degradation
Potato	Potato peel	Potato peel waste liquid extract	Cinnamic acid derivatives	Caffeic acid	0.01	mg/g	Potato peel waste: stability and antioxidant activity of a freeze-dried extract
Potato	Potato peel	Potato peel waste freeze-dried extract (amount of freeze-dried extract/5g potato peel waste was 0.28g)	Cinnamic acid derivatives	Caffeic acid	0.02	mg/g	Potato peel waste: stability and antioxidant activity of a freeze-dried extract
Abattoir wastes, unspecified	Abattoir raw effluent	Genotype: Divina. Other genotypes in publication.	Cinnamic acid derivatives	Caffeic acid	0.5	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes

Potato	Potato	Genotype: Divina. Other genotypes in publication.	Cinnamic acid derivatives	Caffeic acid	0.5	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes
Potato	Potato	Genotype: La Ratte. Other genotypes in publication.	Cinnamic acid derivatives	Caffeic acid	1.3	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes
Potato	Potato	Genotype: SVG-1. Other genotypes in publication.	Cinnamic acid derivatives	Caffeic acid	4.6	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes
Potato	Potato	Genotype: Yukon goldher genotypes in publication.	Cinnamic acid derivatives	Caffeic acid	9.6	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes
Potato	Potato	Genotype: Burbank. Other genotypes in publication.	Cinnamic acid derivatives	Caffeic acid	11.6	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes
Potato	Potato	Genotype: Pollunta chata. Other genotypes in publication.	Cinnamic acid derivatives	Caffeic acid	47.6	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes

Potato	Potato	Genotype: Yuguima. Other genotypes in publication.	Cinnamic acid derivatives	Caffeic acid	23.7	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Xanthine alkaloids	Caffeine	0.4	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Xanthine alkaloids	Caffeine	0.4	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Inorganics	Calcium	6	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Grape	Grape cane	Alphone Lavallee	Inorganics	Calcium	7.38	mg/g	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Inorganics	Calcium	5.95	mg/g	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Inorganics	Calcium	6.33	mg/g	Chemical composition of grape canes
Grape	Grape cane	Hafizali	Inorganics	Calcium	7.2	mg/g	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Inorganics	Calcium	7.02	mg/g	Chemical composition of grape canes
Grape	Grape cane	Isabella	Inorganics	Calcium	7.98	mg/g	Chemical composition of grape canes
Grape	Grape cane	Italia	Inorganics	Calcium	10.21	mg/g	Chemical composition of grape canes

Grape	Grape cane	Sultani Cekirdeksiz	Inorganics	Calcium	7.71	mg/g	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Inorganics	Calcium	7.94	mg/g	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Inorganics	Calcium	7.85	mg/g	Chemical composition of grape canes
Poultry	Hatchery waste		Inorganics	Calcium	229000	mg/kg	Composition of Australian meat chicken hatchery waste
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Inorganics	Calcium	0.76	mg/kg	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Inorganics	Calcium	3700	mg/kg	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Calcium	5384.4	mg/kg DM	ECN Phyllis 2

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Calcium	55000	mg/kg DM	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Calcium	1700	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Calcium	23000	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Calcium	43652	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Calcium	37685	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Calcium	3700	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Calcium	35000	mg/kg DM	ECN Phyllis 2
Rice	Rice straw char	Char from pyrolysis at 490°C	Inorganics	Calcium	5136	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Calcium	3899	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Calcium	16869	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Calcium	21798	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Calcium	2200	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Calcium	2200	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Calcium	4000	mg/kg DM	ECN Phyllis 2
Olive	Olive cake		Inorganics	Calcium	13000	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Calcium	5085.5	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Calcium	8551.5	mg/kg DM	ECN Phyllis 2

Olive	Olive residue	Sample lot size: 60kg. Country: Spain	Inorganics	Calcium	14460.5	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Calcium	7641	mg/kg DM	ECN Phyllis 2
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Inorganics	Calcium	1	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Nuts, unspecified	Nut meal	Babacu	Inorganics	Calcium	1.1	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Nuts, unspecified	Nut meal	Cashew	Inorganics	Calcium	0.7	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cassava	Cassava meal		Inorganics	Calcium	2.9	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Inorganics	Calcium	3.7	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Corn	Corn gluten meal		Inorganics	Calcium	0.4	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cotton	Cottonseed meal	solv	Inorganics	Calcium	2.4	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Inorganics	Calcium	4	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Animal by-products, unspecified	Meat and bone meal		Inorganics	Calcium	125	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Rice	Rice bran	Defatted	Inorganics	Calcium	0.7	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Inorganics	Calcium	2.8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Sugar cane	Sugar cane juice		Inorganics	Calcium	0.1	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Inorganics	Calcium	0.8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Wheat	Wheat bran		Inorganics	Calcium	1.1	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Apple	Apple pomace, dried	Dried	Inorganics	Calcium	0.13	%	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Powder	Inorganics	Calcium	0.06	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Calcium	0.04	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Calcium	0.05	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Calcium	0.05	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Inorganics	Calcium	0.35	%	Wet brewers' grains for beef cattle
Grape	Grape stalks		Inorganics	Calcium	0.15	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Apple	Apple pomace, dried	Dried	Inorganics	Calcium	0.13	% d.b.	2012FeedComp

Apple	Apple pomace	Malus domestica	Inorganics	Calcium	0.2	% d.b.	Waste to worth: fruit wastes and by-products as animal feed
Apple	Apple pomace, dried	Powder	Inorganics	Calcium	0.062	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Calcium	0.041	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Calcium	0.052	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Calcium	0.055	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Citrus, unspecified	Citrus pulp, dried		Inorganics	Calcium	1.81	% d.b.	2012FeedComp
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Calcium	0.49	% d.b.	Utilization of fruit and vegetable wastes, FAO
Orange	Orange pulp, dried		Inorganics	Calcium	0.71	% DM	2012FeedComp
Orange	Orange pulp silage	Source: Israel	Inorganics	Calcium	1.38	% DM	Citrus by-products for animal feed

Citrus, unspecified	Citrus molasses	Source: United States	Inorganics	Calcium	1.13	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus molasses		Inorganics	Calcium	1.84	% DM	2012FeedComp
Tomatoes	Tomato pomace, dried	Dried	Inorganics	Calcium	0.43	% d.b.	2012FeedComp
Tomatoes	Tomato pomace	Solanum lucopersicum	Inorganics	Calcium	0.22-0.38	% d.b.	Vegetable waste as animal feed paper; Utilization of fruit and vegetable wastes, FAO
Rice	Rice hull		Inorganics	Calcium	0.12	% d.b.	2012FeedComp
Rice	Rice mill byproduct		Inorganics	Calcium	0.25	% d.b.	2012FeedComp
Poultry	Feather meal	Hydrolyzed	Inorganics	Calcium	0.48	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Calcium	0.91	% d.b.	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Calcium	0.88	% d.b.	Utilization of fruit and vegetable wastes, FAO

Barley	Barley grain screenings		Inorganics	Calcium	0.35	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Inorganics	Calcium	0.3	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Inorganics	Calcium	0.13	% d.b.	2012FeedComp
Grape	Grape pomace	Stemless	Inorganics	Calcium	0.55	% d.b.	2012FeedComp
Grape	Grape pomace/marc	Namily vitaceae	Inorganics	Calcium	0.61	% d.b.	Utilization of fruit and vegetable wastes, FAO; Fruit waste as feed paper
Distillers grain	Distillers grain	Wet	Inorganics	Calcium	0.1	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Inorganics	Calcium	0.2	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Inorganics	Calcium	0.23	% d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Almond	Inorganics	Calcium	0.24	% d.b.	2012FeedComp
Apple	Apple		Inorganics	Calcium	0.06	% DM	2012FeedComp
Apple	Apple pomace	Wet	Inorganics	Calcium	0.13	% d.b.	2012FeedComp

Banana	Banana		Inorganics	Calcium	0.03	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Inorganics	Calcium	0.65	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Inorganics	Calcium	0.65	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Inorganics	Calcium	0.6	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Inorganics	Calcium	0.6	% d.b.	2012FeedComp
Sugar beet	Sugar beet tops		Inorganics	Calcium	1.1	% d.b.	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Inorganics	Calcium	1.38	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Inorganics	Calcium	0.32	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Inorganics	Calcium	27	% d.b.	2012FeedComp
Bread	Bread by product		Inorganics	Calcium	0.1	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Inorganics	Calcium	0.3	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Inorganics	Calcium	0.1	% d.b.	2012FeedComp

Butter	Buttermilk, dried		Inorganics	Calcium	1.44	% d.b.	2012FeedComp
Bread	Calcium carbonate		Inorganics	Calcium	38.5	% d.b.	2012FeedComp
Carrot	Carrot	Roots, fresh	Inorganics	Calcium	0.55	% d.b.	2012FeedComp
Carrot	Carrot tops		Inorganics	Calcium	1.94	% d.b.	2012FeedComp
Beef	Cattle manure, dried	Dried	Inorganics	Calcium	1.15	% d.b.	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Inorganics	Calcium	0.4	% d.b.	2012FeedComp
Coffee	Coffee grounds		Inorganics	Calcium	0.1	% d.b.	2012FeedComp
Cotton	Cottonseed hulls		Inorganics	Calcium	0.15	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Inorganics	Calcium	0.22	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Inorganics	Calcium	0.21	% d.b.	2012FeedComp
Crab	Crab waste meal		Inorganics	Calcium	15	% d.b.	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Inorganics	Calcium	1.27	% d.b.	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Inorganics	Calcium	1.22	% d.b.	2012FeedComp
Crawfish	Crawfish waste meal		Inorganics	Calcium	13.1	% d.b.	2012FeedComp

Distillers grain	Distillers grain	Barley	Inorganics	Calcium	0.15	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Inorganics	Calcium	0.09	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Inorganics	Calcium	0.09	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Inorganics	Calcium	0.1	% d.b.	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Inorganics	Calcium	0.35	% d.b.	2012FeedComp
Distillers grain	Distillers corn stillage		Inorganics	Calcium	0.14	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Inorganics	Calcium	0.2	% d.b.	2012FeedComp
Fish, unspecified	Fish meal		Inorganics	Calcium	5.55	% d.b.	2012FeedComp
Hop	Hop leaves		Inorganics	Calcium	2.8	% d.b.	2012FeedComp
Hop	Hop vine silage		Inorganics	Calcium	3.3	% d.b.	2012FeedComp
Hop	Hops	Spent	Inorganics	Calcium	1.6	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Inorganics	Calcium	0.43	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Inorganics	Calcium	0.42	% d.b.	2012FeedComp

Poultry	Meat meal	Swine/poultry	Inorganics	Calcium	9	% d.b.	2012FeedComp
Sugar beet	Sugar beet molasses		Inorganics	Calcium	0.14	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses		Inorganics	Calcium	0.95	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Inorganics	Calcium	1.1	% d.b.	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Inorganics	Calcium	2.12	% d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Inorganics	Calcium	0.2	% d.b.	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Inorganics	Calcium	0.26	% d.b.	2012FeedComp
Nuts, unspecified	Nut skins	Peanut	Inorganics	Calcium	0.19	% d.b.	2012FeedComp
Pineapple	Pineapple greenchop		Inorganics	Calcium	0.28	% d.b.	2012FeedComp
Pineapple	Pineapple bran		Inorganics	Calcium	0.26	% d.b.	2012FeedComp
Pineapple	Pineapple presscake		Inorganics	Calcium	0.25	% d.b.	2012FeedComp
Potato	Potato vine silage		Inorganics	Calcium	2.1	% d.b.	2012FeedComp
Potato	Potato	Cull	Inorganics	Calcium	0.03	% d.b.	2012FeedComp

Potato	Potato waste	Wet	Inorganics	Calcium	0.16	% d.b.	2012FeedComp
Potato	Potato waste, dried	Dried	Inorganics	Calcium	0.16	% d.b.	2012FeedComp
Potato	Potato waste	Wet with lime	Inorganics	Calcium	4.2	% d.b.	2012FeedComp
Potato	Potato waste	Filter cake	Inorganics	Calcium	0.1	% d.b.	2012FeedComp
Poultry	Poultry by product meal		Inorganics	Calcium	4	% d.b.	2012FeedComp
Poultry	Poultry manure, dried	Dried	Inorganics	Calcium	10.2	% d.b.	2012FeedComp
Rice	Rice straw		Inorganics	Calcium	0.23	% d.b.	2012FeedComp
Rice	Rice straw	Ammoniated	Inorganics	Calcium	0.25	% d.b.	2012FeedComp
Rice	Rice grain		Inorganics	Calcium	0.07	% d.b.	2012FeedComp
Rice	Rice polishings		Inorganics	Calcium	0.05	% d.b.	2012FeedComp
Rice	Rice bran		Inorganics	Calcium	0.07	% d.b.	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Inorganics	Calcium	0.35	% d.b.	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Inorganics	Calcium	0.38	% d.b.	2012FeedComp
Shrimp	Shrimp waste meal		Inorganics	Calcium	8.5	% d.b.	2012FeedComp

Sunflower	Sunflower meal	Solv. Ext.	Inorganics	Calcium	0.44	% d.b.	2012FeedComp
Sunflower	Sunflower meal	With hulls	Inorganics	Calcium	0.4	% d.b.	2012FeedComp
Sunflower	Sunflower seed hulls		Inorganics	Calcium	0	% d.b.	2012FeedComp
Sugar cane	Sugar cane bagasse		Inorganics	Calcium	0.9	% d.b.	2012FeedComp
Tomatoes	Tomato		Inorganics	Calcium	0.14	% d.b.	2012FeedComp
Wheat	Wheat	Fresh, pasture	Inorganics	Calcium	0.35	% d.b.	2012FeedComp
Wheat	Wheat hay		Inorganics	Calcium	0.21	% d.b.	2012FeedComp
Wheat	Wheat silage		Inorganics	Calcium	0.4	% d.b.	2012FeedComp
Wheat	Wheat straw		Inorganics	Calcium	0.17	% d.b.	2012FeedComp
Wheat	Wheat straw	Ammoniated	Inorganics	Calcium	0.15	% d.b.	2012FeedComp
Wheat	Wheat grain		Inorganics	Calcium	0.05	% d.b.	2012FeedComp
Wheat	Wheat grain	Hard	Inorganics	Calcium	0.05	% d.b.	2012FeedComp
Wheat	Wheat grain	Soft	Inorganics	Calcium	0.06	% d.b.	2012FeedComp
Wheat	Wheat grain	Steam flaked	Inorganics	Calcium	0.05	% d.b.	2012FeedComp

Wheat	Wheat grain	Sprouted	Inorganics	Calcium	0.04	% d.b.	2012FeedComp
Wheat	Wheat bran		Inorganics	Calcium	0.13	% d.b.	2012FeedComp
Wheat	Wheat middlings		Inorganics	Calcium	0.14	% d.b.	2012FeedComp
Wheat	Wheat mill run		Inorganics	Calcium	0.11	% d.b.	2012FeedComp
Wheat	Wheat shorts		Inorganics	Calcium	0.1	% d.b.	2012FeedComp
Cheese	Whey, dried	Dried	Inorganics	Calcium	0.98	% d.b.	2012FeedComp
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Inorganics	Calcium	2.17	% d.b.	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Inorganics	Calcium	2.38	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Calcium	0.4	% d.b.	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Inorganics	Calcium	0.08	% d.b.	Utilization of fruit and vegetable wastes, FAO

Lemon	Sweet lemon pulp	Citrus limetta, without skin	Inorganics	Calcium	0.49	% d.b.	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Inorganics	Calcium	0.2	% d.b.	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Inorganics	Calcium	0.61	% d.b.	Utilization of fruit and vegetable wastes, FAO
Pineapple	Pineapple bran	Ananas comosus	Inorganics	Calcium	0.23	% d.b.	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Calcium	0.22	% d.b.	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Inorganics	Calcium	0.29	% d.b.	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Inorganics	Calcium	0.62	% d.b.	Utilization of fruit and vegetable wastes, FAO

Melon	Watermelon, peels	Citrullus lanatus	Inorganics	Calcium	0.47	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Inorganics	Calcium	0.42	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Calcium	0.4	% d.b.	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Inorganics	Calcium	0.42	% d.b.	Vegetable waste as animal feed paper
Potato	Potato	Solanum tuberosum	Inorganics	Calcium	0.08	% d.b.	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Inorganics	Calcium	0.24	% d.b.	Vegetable waste as animal feed paper
Pumpkin	Pumpkin oil meal	Cucurbita pepo	Inorganics	Calcium	0.16	% d.b.	Vegetable waste as animal feed paper

Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Calcium	0.22-0.38	% d.b.	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Inorganics	Calcium	2.38	% d.b.	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Inorganics	Calcium	2.17	% d.b.	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Calcium	0.88	% d.b.	Vegetable waste as animal feed paper
Bakery	Bakery product, dried	Dried	Inorganics	Calcium	0.16	% d.b.	2012FeedComp
Canola	Canola meal	Solv. Ext.	Inorganics	Calcium	0.74	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole	Inorganics	Calcium	0.16	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Inorganics	Calcium	0.12	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Inorganics	Calcium	0.17	% d.b.	2012FeedComp
Grain, unspecified	Grain screenings		Inorganics	Calcium	0.25	% d.b.	2012FeedComp

Grain, unspecified	Grain dust		Inorganics	Calcium	0.3	% d.b.	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Inorganics	Calcium	13.5	% d.b.	2012FeedComp
Milk	Milk, dried	Dry, skim	Inorganics	Calcium	1.36	% d.b.	2012FeedComp
Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Calcium	9.31	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Calcium	12.65	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Calcium	11.25	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Calcium	11.69	% DM	Composted slaughterhouse waste as organic fertilizer

Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Inorganics	Calcium	7.02	% DM	Composted slaughterhouse waste as organic fertilizer
Distillers grain	Distillers grain	Maize, dried, with soluble	Inorganics	Calcium	0.4	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Wheat	Wheat grain	Distillers', dried, with soluble	Inorganics	Calcium	1.6	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Grape	Grape seeds	White, Italian	Inorganics	Calcium	5	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Red, Italian	Inorganics	Calcium	5.9	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Californian	Inorganics	Calcium	5.3	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Not ensiled	Inorganics	Calcium	5.5	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Ensiled for 45 days	Inorganics	Calcium	5.3	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	White, Italian	Inorganics	Calcium	3.9	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Red, Italian	Inorganics	Calcium	4.9	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Californian	Inorganics	Calcium	4.1	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Not ensiled	Inorganics	Calcium	4.2	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Ensiled for 45 days	Inorganics	Calcium	4.4	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Citrus, unspecified	Citrus pulp silage		Inorganics	Calcium	20.4	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus meal, dried		Inorganics	Calcium	21.7	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Calcium	19.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Calcium	18.4	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Calcium	17.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Calcium	7.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Calcium	16.0	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange peel	Fresh	Inorganics	Calcium	7.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Calcium	35.4	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Inorganics	Calcium	7.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Inorganics	Calcium	5.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Inorganics	Calcium	6.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Inorganics	Calcium	9.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Inorganics	Calcium	7.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Inorganics	Calcium	7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Inorganics	Calcium	6.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Inorganics	Calcium	7.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Inorganics	Calcium	8.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Inorganics	Calcium	7.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Inorganics	Calcium	7.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Citrus, unspecified	Citrus molasses	Condensed solubles	Inorganics	Calcium	24.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillery by-products, unspecified	Distillers solubles	Citrus molasses	Inorganics	Calcium	9.0	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Calcium	20.7	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried	Ammoniated	Inorganics	Calcium	19.0	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Calcium	16.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Inorganics	Calcium	14.8	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus seed meal	Mechanical extract	Inorganics	Calcium	12.5	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses	Ammoniated	Inorganics	Calcium	16.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Calcium	20	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp		Inorganics	Calcium	5.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange		Inorganics	Calcium	5.7	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Wet	Inorganics	Calcium	2.1	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange by-product, dried		Inorganics	Calcium	7.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Inorganics	Calcium	7.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Tangerine	Inorganics	Calcium	15.7	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillery by-products, unspecified	Distillers solids		Inorganics	Calcium	1.2	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Rice	Rice, aerial part	Fresh	Inorganics	Calcium	2.9	g/kg DM	Feedipedia
Rice	Rice straw		Inorganics	Calcium	2.9	g/kg DM	Feedipedia
Rice	Rice straw	Urea-treated	Inorganics	Calcium	3.2	g/kg DM	Feedipedia
Rice	Rice straw	NaOH-treated	Inorganics	Calcium	2.1	g/kg DM	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Inorganics	Calcium	1.9	g/kg DM	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Inorganics	Calcium	1.6	g/kg DM	Feedipedia

Wheat	Triticale grain		Inorganics	Calcium	0.7	g/kg DM	Feedipedia
Wheat	Triticale straw		Inorganics	Calcium	2.7	g/kg DM	Feedipedia
Wheat	Wheat straw		Inorganics	Calcium	4.8	g/kg DM	Feedipedia
Wheat	Wheat forage	Fresh	Inorganics	Calcium	3.8	g/kg DM	Feedipedia
Palm	Oil palm fronds	Fresh	Inorganics	Calcium	5.3	g/kg DM	Feedipedia
Palm	Oil palm leaflets	Fresh	Inorganics	Calcium	5.3	g/kg DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Inorganics	Calcium	1.2	g/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Inorganics	Calcium	1.6	g/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Inorganics	Calcium	2	g/kg DM	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Inorganics	Calcium	20.1	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Inorganics	Calcium	2.7	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Inorganics	Calcium	3	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Inorganics	Calcium	5.1	g/kg DM	Feedipedia
Rice	Rice grain	Polished	Inorganics	Calcium	0.5	g/kg DM	Feedipedia

Rice	Rice grain	Polished, parboiled	Inorganics	Calcium	1.3	g/kg DM	Feedipedia
Rice	Rice grain	Brown	Inorganics	Calcium	0.5	g/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Inorganics	Calcium	2.4	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Inorganics	Calcium	1.6	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Inorganics	Calcium	0.2	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Inorganics	Calcium	2.4	g/kg DM	Feedipedia
Rice	Rice bran	Fibre <4%	Inorganics	Calcium	0.6	g/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Inorganics	Calcium	0.7	g/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Inorganics	Calcium	0.7	g/kg DM	Feedipedia
Rice	Rice bran	Fibre >20%	Inorganics	Calcium	4.7	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Inorganics	Calcium	0.8	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Inorganics	Calcium	2.5	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Inorganics	Calcium	1	g/kg DM	Feedipedia
Rice	Rice hull		Inorganics	Calcium	0.9	g/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Inorganics	Calcium	0.6	g/kg DM	Feedipedia

Sorghum	Sorghum bran and milling offal		Inorganics	Calcium	0.9	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Inorganics	Calcium	7.7	g/kg DM	Feedipedia
Distillers grain	Distillers grain	Fresh, Sorghum, with or without solubles	Inorganics	Calcium	1.5	g/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Inorganics	Calcium	0.8	g/kg DM	Feedipedia
Sorghum	Sorghum gluten feed		Inorganics	Calcium	0.3	g/kg DM	Feedipedia
Sorghum	Sorghum gluten meal		Inorganics	Calcium	0.1	g/kg DM	Feedipedia
Sorghum	Sorghum germ oil meal		Inorganics	Calcium	0.1	g/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Inorganics	Calcium	0.3	g/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Inorganics	Calcium	0.5	g/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Inorganics	Calcium	0.2	g/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Inorganics	Calcium	0.3	g/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Inorganics	Calcium	0.3	g/kg DM	Feedipedia
Wheat	Wheat bran		Inorganics	Calcium	1.4	g/kg DM	Feedipedia

Wheat	Wheat grain	Distillers, with solubles, starch <7%	Inorganics	Calcium	2.1	g/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Inorganics	Calcium	2	g/kg DM	Feedipedia
Wheat	Wheat germs		Inorganics	Calcium	0.8	g/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Inorganics	Calcium	2.9	g/kg DM	Feedipedia
Wheat	Wheat grain		Inorganics	Calcium	0.7	g/kg DM	Feedipedia
Wheat	Wheat grain	Durum	Inorganics	Calcium	0.9	g/kg DM	Feedipedia
Wheat	Wheat screenings		Inorganics	Calcium	1.8	g/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Almond	Inorganics	Calcium	2.7	g/kg DM	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Inorganics	Calcium	23.9	g/kg DM	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Inorganics	Calcium	2.6	g/kg DM	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Inorganics	Calcium	6.9	g/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Inorganics	Calcium	1.1	g/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Inorganics	Calcium	1.5	g/kg DM	Feedipedia

Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Inorganics	Calcium	2.7	g/kg DM	Feedipedia
Castor	Castor hulls	Ricinus communis	Inorganics	Calcium	5.4	g/kg DM	Feedipedia
Castor	Castor oil meal	Ricinus communis	Inorganics	Calcium	8.5	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Inorganics	Calcium	3.7	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Inorganics	Calcium	2.1	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Inorganics	Calcium	5.7	g/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Inorganics	Calcium	1.2	g/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Inorganics	Calcium	0.7	g/kg DM	Feedipedia
Coconut	Coconut copra	Fresh	Inorganics	Calcium	0.3	g/kg DM	Feedipedia
Coconut	Coconut water		Inorganics	Calcium	57.7	g/kg DM	Feedipedia
Cotton	Cotton straw		Inorganics	Calcium	8.9	g/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Inorganics	Calcium	2.1	g/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Inorganics	Calcium	2	g/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Inorganics	Calcium	2.2	g/kg DM	Feedipedia

Cotton	Cottonseed meal	High fibre, low oil	Inorganics	Calcium	2.9	g/kg DM	Feedipedia
Flax/linseed	Flax straw		Inorganics	Calcium	4.8	g/kg DM	Feedipedia
Flax/linseed	Flax chaff		Inorganics	Calcium	8.6	g/kg DM	Feedipedia
Flax/linseed	Flax shives		Inorganics	Calcium	5.5	g/kg DM	Feedipedia
Flax/linseed	Flax hay		Inorganics	Calcium	8.3	g/kg DM	Feedipedia
Grape	Grape seeds		Inorganics	Calcium	7.1	g/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Inorganics	Calcium	9.9	g/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Inorganics	Calcium	9	g/kg DM	Feedipedia
Flax/linseed	Linseed meal		Inorganics	Calcium	4.3	g/kg DM	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Inorganics	Calcium	4.4	g/kg DM	Feedipedia
Flax/linseed	Linseeds		Inorganics	Calcium	3	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Inorganics	Calcium	0.7	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Inorganics	Calcium	0.3	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Inorganics	Calcium	0.4	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Inorganics	Calcium	3.4	g/kg DM	Feedipedia
Corn	Maize germ	Oil <30%	Inorganics	Calcium	0.6	g/kg DM	Feedipedia
Corn	Maize germ	Oil >30%	Inorganics	Calcium	1	g/kg DM	Feedipedia

Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Inorganics	Calcium	0.5	g/kg DM	Feedipedia
Mustard	Mustard seeds	Brassica sp.	Inorganics	Calcium	0.3	g/kg DM	Feedipedia
Palm	Oil palm kernels		Inorganics	Calcium	1.1	g/kg DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Inorganics	Calcium	7.3	g/kg DM	Feedipedia
Olive	Olive oil cake	Crude, without stones	Inorganics	Calcium	12.5	g/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Inorganics	Calcium	6.3	g/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Inorganics	Calcium	15.2	g/kg DM	Feedipedia
Olive	Olive oil pulp	Crude	Inorganics	Calcium	9	g/kg DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Inorganics	Calcium	11.8	g/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Inorganics	Calcium	2.8	g/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Inorganics	Calcium	2.7	g/kg DM	Feedipedia
Palm	Palm oil mill effluent	Decanted	Inorganics	Calcium	0.5	g/kg DM	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Inorganics	Calcium	1.7	g/kg DM	Feedipedia
Palm	Palm press fibre	High oil	Inorganics	Calcium	3.2	g/kg DM	Feedipedia

Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Inorganics	Calcium	11	g/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Inorganics	Calcium	14.6	g/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Inorganics	Calcium	2.4	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Inorganics	Calcium	1.8	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Inorganics	Calcium	1.6	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Inorganics	Calcium	1.2	g/kg DM	Feedipedia
Peanuts	Peanuts	Without shells	Inorganics	Calcium	0.8	g/kg DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Inorganics	Calcium	1.5	g/kg DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Inorganics	Calcium	2	g/kg DM	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Inorganics	Calcium	30.4	g/kg DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Inorganics	Calcium	26	g/kg DM	Feedipedia

Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Inorganics	Calcium	15.3	g/kg DM	Feedipedia
Pumpkin	Pumpkin	Fruits, fresh, Cucurbita sp.	Inorganics	Calcium	3.9	g/kg DM	Feedipedia
Pumpkin	Pumpkin crop by-product	Fresh, Cucurbita sp.	Inorganics	Calcium	46.4	g/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Inorganics	Calcium	1.6	g/kg DM	Feedipedia
Rape	Rape forage	Fresh	Inorganics	Calcium	27.5	g/kg DM	Feedipedia
Rape	Rape straw		Inorganics	Calcium	9.8	g/kg DM	Feedipedia
Rape	Rapeseed hulls		Inorganics	Calcium	13.3	g/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Inorganics	Calcium	8.5	g/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Inorganics	Calcium	7.9	g/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Inorganics	Calcium	7.2	g/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Inorganics	Calcium	4.9	g/kg DM	Feedipedia

Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Inorganics	Calcium	2.7	g/kg DM	Feedipedia
Safflower	Safflower meal	Without hulls, expeller extraction. Carthamus tinctorius	Inorganics	Calcium	0.6	g/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Inorganics	Calcium	19.7	g/kg DM	Feedipedia
Sesame	Sesame meal	Solvent extraction	Inorganics	Calcium	9.1	g/kg DM	Feedipedia
Sesame	Sesame seeds	Whole	Inorganics	Calcium	1.7	g/kg DM	Feedipedia
Soy	Soybean, aerial part	Fresh	Inorganics	Calcium	14.8	g/kg DM	Feedipedia
Soy	Soybean hay		Inorganics	Calcium	8.6	g/kg DM	Feedipedia
Soy	Soybean hulls		Inorganics	Calcium	5.5	g/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Inorganics	Calcium	3.9	g/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Inorganics	Calcium	3.6	g/kg DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Inorganics	Calcium	4.6	g/kg DM	Feedipedia

Soy	Soybeans	All. Includes raw and processed whole soybeans	Inorganics	Calcium	3.2	g/kg DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Inorganics	Calcium	1.9	g/kg DM	Feedipedia
Soy	Soybeans	Toasted	Inorganics	Calcium	3.4	g/kg DM	Feedipedia
Soy	Soybeans	Extruded	Inorganics	Calcium	3.3	g/kg DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Inorganics	Calcium	17.5	g/kg DM	Feedipedia
Sunflower	Sunflower forage	Silage	Inorganics	Calcium	14.1	g/kg DM	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Inorganics	Calcium	11.2	g/kg DM	Feedipedia
Sunflower	Sunflower heads	Without seeds	Inorganics	Calcium	14.7	g/kg DM	Feedipedia
Sunflower	Sunflower stalks		Inorganics	Calcium	8.3	g/kg DM	Feedipedia
Sunflower	Sunflower hulls		Inorganics	Calcium	4.4	g/kg DM	Feedipedia
Sunflower	Sunflower screenings		Inorganics	Calcium	7.9	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Inorganics	Calcium	4.4	g/kg DM	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Inorganics	Calcium	4.6	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Inorganics	Calcium	4.3	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Inorganics	Calcium	3.9	g/kg DM	Feedipedia
Sunflower	Sunflower seeds		Inorganics	Calcium	2.6	g/kg DM	Feedipedia
Tomatoes	Tomato oil cake		Inorganics	Calcium	1.6	g/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Inorganics	Calcium	3.1	g/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, high fibre	Inorganics	Calcium	4.1	g/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Inorganics	Calcium	0.6	g/kg DM	Feedipedia
Apple	Apple pomace	Fresh	Inorganics	Calcium	1.7	g/kg DM	Feedipedia

Banana	Banana fruits	Mature, fresh	Inorganics	Calcium	0.2	g/kg DM	Feedipedia
Banana	Banana fruits	Immature, fresh	Inorganics	Calcium	0.6	g/kg DM	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Inorganics	Calcium	0.4	g/kg DM	Feedipedia
Banana	Banana fruits	Immature, without peel, fresh	Inorganics	Calcium	0.3	g/kg DM	Feedipedia
Banana	Banana fruits, dried	Immature, without peel, dehydrated	Inorganics	Calcium	0.2	g/kg DM	Feedipedia
Plantain	Plantain banana fruits, dried	Dehydrated	Inorganics	Calcium	0.7	g/kg DM	Feedipedia
Banana	Banana shoots	Fresh	Inorganics	Calcium	8.1	g/kg DM	Feedipedia
Plantain	Plantain banana trunk	Fresh	Inorganics	Calcium	7	g/kg DM	Feedipedia
Banana	Banana leaves, dried	Dehydrated	Inorganics	Calcium	7.5	g/kg DM	Feedipedia
Banana	Banana stalks	Fresh	Inorganics	Calcium	7.5	g/kg DM	Feedipedia
Plantain	Plantain banana leaves	Fresh	Inorganics	Calcium	16.7	g/kg DM	Feedipedia
Banana	Banana peel	Mature, fresh	Inorganics	Calcium	4.6	g/kg DM	Feedipedia
Banana	Banana peel	Immature, fresh	Inorganics	Calcium	3.5	g/kg DM	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Inorganics	Calcium	1.9	g/kg DM	Feedipedia

Plantain	Plantain banana peel	Immature, fresh	Inorganics	Calcium	1.9	g/kg DM	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Inorganics	Calcium	6.3	g/kg DM	Feedipedia
Citrus, unspecified	Citrus, dried	Fruits, dried	Inorganics	Calcium	42.7	g/kg DM	Feedipedia
Orange	Orange	Fruits, fresh	Inorganics	Calcium	4.7	g/kg DM	Feedipedia
Grapefruit	Grapefruit	Fruits (Citrus paradisi), fresh	Inorganics	Calcium	7.9	g/kg DM	Feedipedia
Citrus, unspecified	Citrus molasses		Inorganics	Calcium	11.3	g/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Inorganics	Calcium	17	g/kg DM	Feedipedia
Orange	Orange pulp, dried	Mandarin	Inorganics	Calcium	14.9	g/kg DM	Feedipedia
Orange	Orange pulp	Fresh	Inorganics	Calcium	7.7	g/kg DM	Feedipedia
Grapefruit	Grapefruit pulp	Fresh	Inorganics	Calcium	6.1	g/kg DM	Feedipedia
Lemon	Lemon pulp	Fresh	Inorganics	Calcium	21.3	g/kg DM	Feedipedia
Orange	Orange peel	Orange, fresh	Inorganics	Calcium	13	g/kg DM	Feedipedia
Orange	Orange peel silage	Orange	Inorganics	Calcium	13.8	g/kg DM	Feedipedia
Lime	Lime seeds	Lime (Citrus aurantiifolia)	Inorganics	Calcium	1.8	g/kg DM	Feedipedia
Coffee	Coffee hulls		Inorganics	Calcium	4.5	g/kg DM	Feedipedia

Coffee	Coffee pulp, dried	Dehydrated	Inorganics	Calcium	3.2	g/kg DM	Feedipedia
Coffee	Instant coffee by product		Inorganics	Calcium	2	g/kg DM	Feedipedia
Coffee	Coffee oil meal	By product of essential oil extraction	Inorganics	Calcium	11.6	g/kg DM	Feedipedia
Coffee	Coffee leaves		Inorganics	Calcium	6.2	g/kg DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Inorganics	Calcium	7.4	g/kg DM	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Inorganics	Calcium	5	g/kg DM	Feedipedia
Date	Date palm leaves, dried	Dry	Inorganics	Calcium	7	g/kg DM	Feedipedia
Grape	Grape pomace	Dehydrated	Inorganics	Calcium	9	g/kg DM	Feedipedia
Grape	Grape pomace	Fresh	Inorganics	Calcium	9	g/kg DM	Feedipedia
Grape	Grape pomace	Silage	Inorganics	Calcium	6.1	g/kg DM	Feedipedia
Melon	Melon	Aerial part, fresh. Cucumis melo	Inorganics	Calcium	29.8	g/kg DM	Feedipedia

Melon	Melon	Fruit, fresh. Cucumis melo	Inorganics	Calcium	4.9	g/kg DM	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Inorganics	Calcium	4.9	g/kg DM	Feedipedia
Tomatoes	Tomato, leaves	Fresh	Inorganics	Calcium	42.5	g/kg DM	Feedipedia
Melon	Watermelon	Aerial part, fresh. Citrullus lanatus	Inorganics	Calcium	19.6	g/kg DM	Feedipedia
Melon	Watermelon	Fruit, fresh. Citrullus lanatus	Inorganics	Calcium	3.6	g/kg DM	Feedipedia
Sugar beet	Sugar beet molasses		Inorganics	Calcium	1.1	g/kg DM	Feedipedia
Carrot	Carrot	Roots, fresh	Inorganics	Calcium	3.8	g/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Inorganics	Calcium	4.5	g/kg DM	Feedipedia
Carrot	Carrot tops	Fresh	Inorganics	Calcium	20.1	g/kg DM	Feedipedia
Potato	Potato leaves, dried	Dried	Inorganics	Calcium	13.9	g/kg DM	Feedipedia
Potato	Potato peel	Fresh	Inorganics	Calcium	0.8	g/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Inorganics	Calcium	0.7	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Inorganics	Calcium	15.5	g/kg DM	Feedipedia

Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Inorganics	Calcium	10	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Inorganics	Calcium	12.8	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Inorganics	Calcium	14.7	g/kg DM	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Inorganics	Calcium	2.5	g/kg DM	Feedipedia
Sugar beet	Sugar beet leaves and tops	Fresh	Inorganics	Calcium	14.8	g/kg DM	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Inorganics	Calcium	11	g/kg DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Inorganics	Calcium	9.5	g/kg DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Inorganics	Calcium	12.4	g/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Inorganics	Calcium	1.2	g/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Inorganics	Calcium	1.7	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Inorganics	Calcium	1.4	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Inorganics	Calcium	1.8	g/kg DM	Feedipedia

Sugar by-products, unspecified	Bagasse, dried	Urea-treated, dehydrated	Inorganics	Calcium	0.9	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse pith		Inorganics	Calcium	3.9	g/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Inorganics	Calcium	9.2	g/kg DM	Feedipedia
Sugar cane	Sugar cane, syrup-off		Inorganics	Calcium	11.5	g/kg DM	Feedipedia
Sugar cane	Sugar cane mud	Rotary-filter mud	Inorganics	Calcium	26.3	g/kg DM	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Inorganics	Calcium	2.8	g/kg DM	Feedipedia
Sugar cane	Sugar cane tops	Silage	Inorganics	Calcium	4	g/kg DM	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Inorganics	Calcium	3.5	g/kg DM	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Inorganics	Calcium	10.3	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Inorganics	Calcium	2	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Inorganics	Calcium	0.9	g/kg DM	Feedipedia

Distillery by-products, unspecified	Vinasse	From lysine production	Inorganics	Calcium	2	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Inorganics	Calcium	62.3	g/kg DM	Feedipedia
Pork	Hog hair meal	Hydrolysed	Inorganics	Calcium	3.4	g/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal		Inorganics	Calcium	1.3	g/kg DM	Feedipedia
Animal by-products, unspecified	Blood	Fresh	Inorganics	Calcium	8.9	g/kg DM	Feedipedia
Animal by-products, unspecified	Blood	Moist	Inorganics	Calcium	7.2	g/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Calcinated	Inorganics	Calcium	303.2	g/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Inorganics	Calcium	220	g/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Inorganics	Calcium	325	g/kg DM	Feedipedia
Crab	Crab meal, dried	Dehydrated	Inorganics	Calcium	175.1	g/kg DM	Feedipedia
Crab	Crab meal	Fresh	Inorganics	Calcium	142	g/kg DM	Feedipedia

Crab	Crab shells	Ground	Inorganics	Calcium	238.7	g/kg DM	Feedipedia
Eggs	Eggshells		Inorganics	Calcium	366.5	g/kg DM	Feedipedia
Poultry	Feather meal		Inorganics	Calcium	12.7	g/kg DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Inorganics	Calcium	26.5	g/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Inorganics	Calcium	43.4	g/kg DM	Feedipedia
Fish, unspecified	Fish protein concentrate		Inorganics	Calcium	26.1	g/kg DM	Feedipedia
Fish, unspecified	Fish solubles	Menhaden, fresh	Inorganics	Calcium	1.2	g/kg DM	Feedipedia
Frog	Frog meal	Frog waste	Inorganics	Calcium	1	g/kg DM	Feedipedia
Frog	Frog meal	Whole frog	Inorganics	Calcium	1.9	g/kg DM	Feedipedia
Poultry	Hatchery by product		Inorganics	Calcium	191.4	g/kg DM	Feedipedia
Beef	Cattle hoof and horn meal		Inorganics	Calcium	8	g/kg DM	Feedipedia
Lamb	Lamb hooves	Raw	Inorganics	Calcium	21	g/kg DM	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Inorganics	Calcium	22	g/kg DM	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Inorganics	Calcium	38.4	g/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Inorganics	Calcium	1	g/kg DM	Feedipedia

Animal by-products, unspecified	Liver meal	Cattle	Inorganics	Calcium	1.8	g/kg DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Inorganics	Calcium	50.4	g/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Inorganics	Calcium	101.1	g/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Inorganics	Calcium	94.4	g/kg DM	Feedipedia
Poultry	Offal meal	Poultry	Inorganics	Calcium	20.3	g/kg DM	Feedipedia
Poultry	Poultry by product meal	High protein	Inorganics	Calcium	15	g/kg DM	Feedipedia
Poultry	Poultry feet	Chicken, raw	Inorganics	Calcium	40	g/kg DM	Feedipedia
Poultry	Poultry heads	Chicken, raw	Inorganics	Calcium	28	g/kg DM	Feedipedia
Poultry	Poultry viscera	Chicken, raw	Inorganics	Calcium	2.2	g/kg DM	Feedipedia
Beef	Rumen content	Cattle, fresh	Inorganics	Calcium	2.1	g/kg DM	Feedipedia
Beef	Rumen content	Lambs, fresh	Inorganics	Calcium	10	g/kg DM	Feedipedia
Shrimp	Shrimp heads	Fresh	Inorganics	Calcium	130.6	g/kg DM	Feedipedia
Shrimp	Shrimp heads, dried	Dehydrated	Inorganics	Calcium	117.5	g/kg DM	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Inorganics	Calcium	9.8	g/kg DM	Feedipedia
Shrimp	Shrimp waste	Fresh	Inorganics	Calcium	123	g/kg DM	Feedipedia

Shrimp	Shrimp waste, dried	Dehydrated	Inorganics	Calcium	128.5	g/kg DM	Feedipedia
Shrimp	Shrimp waste	Ensiled, fresh	Inorganics	Calcium	65	g/kg DM	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Inorganics	Calcium	18.9	g/kg DM	Feedipedia
Snail	Snail meal	With shells	Inorganics	Calcium	71.5	g/kg DM	Feedipedia
Snail	Snail meal	Without shells	Inorganics	Calcium	13.3	g/kg DM	Feedipedia
Squid	Squid meal		Inorganics	Calcium	1	g/kg DM	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Inorganics	Calcium	25.9	g/kg DM	Feedipedia
Toad	Toad meal		Inorganics	Calcium	2.1	g/kg DM	Feedipedia
Whale	Whale meal		Inorganics	Calcium	33.4	g/kg DM	Feedipedia
Whale	Whale solubles	Condensed	Inorganics	Calcium	1.2	g/kg DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Inorganics	Calcium	5.1	g/kg DM	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Inorganics	Calcium	18.2	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Inorganics	Calcium	2.9	g/kg DM	Feedipedia
Bakery	Bakery and viennoiserie by products		Inorganics	Calcium	1	g/kg DM	Feedipedia

Algae	Spiruline	Dried, Arthrospira spp.	Inorganics	Calcium	0.8	g/kg DM	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Inorganics	Calcium	1.2	g/kg DM	Feedipedia
Corn	Maize starch		Inorganics	Calcium	0.2	g/kg DM	Feedipedia
Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Calcium	0.06	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Calcium	0.15	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Calcium	0.55	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Calcium	0.13	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Bolti	Bolti fish	Whole	Inorganics	Calcium	2385.97	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate

Bolti	Bolti fish	Flesh only	Inorganics	Calcium	784.48	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Fish, unspecified	Fish protein isolate		Inorganics	Calcium	1583.99	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Apple	Apple pomace		Inorganics	Calcium	868	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Calcium	8553	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Calcium	6785	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Calcium	9638	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Calcium	963	ppm d.b.	NOSHAN

Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Calcium	<100	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Calcium	3388	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Calcium	3376.73	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Calcium	9635	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Calcium	10287	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Calcium	4773	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Calcium	10722	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Calcium	3671.13	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Calcium	10.9	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Calcium	5948	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Calcium	8385.19	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Calcium	29873	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Calcium	799	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Calcium	1276	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Calcium	8080	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Calcium	4587	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Calcium	10867	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Calcium	2198	ppm d.b.	NOSHAN

Apple	Apple	Whole	Inorganics	Calcium	397	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Calcium	660	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Calcium	10081	ppm d.b.	NOSHAN
Milk	Milk	Holstein Friesian cows, Spain	Inorganics	Calcium	113.58	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Inorganics	Calcium	158.57	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Potato	Potato peel	A review of different publications	Inorganics	Calcium	0.07-2.40	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production

Rice	Rice husk	Before soaking pre-treatment	Inorganics	Calcium oxide (CaO)	0.24	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk, dried	Soaked rice husks, dried	Inorganics	Calcium oxide (CaO)	1.06	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk		Inorganics	Calcium oxide (CaO)	1.3	% ash	Combustion behaviour of rice husk in a bubbling fluidised bed

Grape	Char from grape residue	Residue from wine production, pyrolysis in packed bed (280-530°C deg C radial profile)	Inorganics	Calcium oxide (CaO)	4	% ash	ECN Phyllis 2
Olive	Char from olive husks	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Calcium oxide (CaO)	21.3	% ash	ECN Phyllis 2
Wheat	Char from wheat straw	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Calcium oxide (CaO)	14.4	% ash	ECN Phyllis 2
Sugar cane	Sugar cane trash	Tops and leaves	Inorganics	Calcium oxide (CaO)	13.05	% ash	ECN Phyllis 2
Sugar beet	Sugar beet		Inorganics	Calcium oxide (CaO)	37	% ash	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Calcium oxide (CaO)	27.93	% ash	ECN Phyllis 2
Bean	Bean plant		Inorganics	Calcium oxide (CaO)	21.5	% ash	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Calcium oxide (CaO)	25	% ash	ECN Phyllis 2

Courgette	Courgette plant		Inorganics	Calcium oxide (CaO)	20.67	% ash	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Calcium oxide (CaO)	29.46	% ash	ECN Phyllis 2
Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Calcium oxide (CaO)	29.46	% ash	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Calcium oxide (CaO)	26.11	% ash	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Calcium oxide (CaO)	24.74	% ash	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Calcium oxide (CaO)	41.06	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Calcium oxide (CaO)	8.39	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Calcium oxide (CaO)	16.99	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Calcium oxide (CaO)	10.5	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Calcium oxide (CaO)	16	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Calcium oxide (CaO)	6.9	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Calcium oxide (CaO)	8.07	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Calcium oxide (CaO)	8.39	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash fusion temperatures according to ASTM D-1857	Inorganics	Calcium oxide (CaO)	16	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Calcium oxide (CaO)	5	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Calcium oxide (CaO)	10.5	% ash	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Calcium oxide (CaO)	12.27	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Calcium oxide (CaO)	17.2	% ash	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Calcium oxide (CaO)	4.2	% ash	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Calcium oxide (CaO)	2.5	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Calcium oxide (CaO)	15.4	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Calcium oxide (CaO)	26.61	% ash	ECN Phyllis 2
Olive	Olive		Inorganics	Calcium oxide (CaO)	10.9	% ash	ECN Phyllis 2

Olive	Olive		Inorganics	Calcium oxide (CaO)	14.09	% ash	ECN Phyllis 2
Olive	Olive	Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Calcium oxide (CaO)	25.89	% ash	ECN Phyllis 2
Olive	Olive cake		Inorganics	Calcium oxide (CaO)	17	% ash	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Calcium oxide (CaO)	14.5	% ash	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Calcium oxide (CaO)	14.56	% ash	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Calcium oxide (CaO)	6.49	% ash	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Calcium oxide (CaO)	8.01	% ash	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Calcium oxide (CaO)	18.2	% ash	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Calcium oxide (CaO)	9.79	% ash	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Calcium oxide (CaO)	22.89	% ash	ECN Phyllis 2
Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Calcium oxide (CaO)	21.3	% ash	ECN Phyllis 2

Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Calcium oxide (CaO)	23.38	% ash	ECN Phyllis 2
Olive	Orujillo	Wood matter from pressed oil stone	Inorganics	Calcium oxide (CaO)	11.9	% ash	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Calcium oxide (CaO)	10.7	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Calcium oxide (CaO)	9.69	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Calcium oxide (CaO)	10.01	% ash	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Calcium oxide (CaO)	12.25	% ash	ECN Phyllis 2
Coffee	Coffee husk	Parchment	Inorganics	Calcium oxide (CaO)	9.8	% ash	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Inorganics	Calcium oxide (CaO)	7.8	% ash	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Calcium oxide (CaO)	42.8	% ash	ECN Phyllis 2

Rice	Rice husk	Ash	Inorganics	Calcium oxide (CaO)	0.592	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Silica powder	Inorganics	Calcium oxide (CaO)	0.0092	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Calcium oxide (CaO)	0.24	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Calcium oxide (CaO)	1.2	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Calcium oxide (CaO)	0.37	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Calcium oxide (CaO)	0.97	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Calcium oxide (CaO)	0.23	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Calcium oxide (CaO)	0.28	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Calcium oxide (CaO)	1.3	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Calcium oxide (CaO)	1.5	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Calcium oxide (CaO)	0.33	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Calcium oxide (CaO)	1.2	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Calcium oxide (CaO)	0.4	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Calcium oxide (CaO)	1.4	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk, dried	Powder	Inorganics	Calcium oxide (CaO)	0.11	% mass fraction	Development of photoluminescent glass derived from rice husk
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Proximates	Calorific value	33	MJ/kg	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Proximates	Calorific value	40	MJ/kg	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Sunflower	Sunflower extracted bagasse		Proximates	Calorific value	18.4	MJ/kg	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Sunflower	Sunflower Heinze oil		Proximates	Calorific value	35.6	MJ/kg	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse

Sunflower	Sunflower char		Proximates	Calorific value	22.8	MJ/kg	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Babassu	Babassu cake		Proximates	Calorific value, total	7883.49	J/g	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Canola	Canola cake		Proximates	Calorific value, total	14494.63	J/g	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Castor	Castor seed cake		Proximates	Calorific value, total	12109.75	J/g	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower cake		Proximates	Calorific value, total	13613.9	J/g	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Phytosterols	Campestanol	1.35	mg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains

Grain, unspecified	Oil extracted from distillers dried grains with soluble		Phytosterols	Campesterol	2.97	mg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Apple	Apple pomace		Undesirable components	Captan	0.4	mg/kg	NOSHAN
Apple	Apple cake		Undesirable components	Captan	0.4	mg/kg	NOSHAN
Cabbage	Cabbage		Undesirable components	Captan	<LOQ	mg/kg	NOSHAN
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Carbohydrate	9.7	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Grape	Grape cane	Alphone Lavallee	Proximates	Carbohydrate	40.17	g/100g	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Proximates	Carbohydrate	43.91	g/100g	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Proximates	Carbohydrate	34.96	g/100g	Chemical composition of grape canes

Grape	Grape cane	Hafizali	Proximates	Carbohydrate	42.07	g/100g	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Proximates	Carbohydrate	38.52	g/100g	Chemical composition of grape canes
Grape	Grape cane	Isabella	Proximates	Carbohydrate	39.62	g/100g	Chemical composition of grape canes
Grape	Grape cane	Italia	Proximates	Carbohydrate	37.17	g/100g	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Proximates	Carbohydrate	39.87	g/100g	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Proximates	Carbohydrate	40.48	g/100g	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Proximates	Carbohydrate	44.22	g/100g	Chemical composition of grape canes
Sugar beet	Sugar beet molasses	From pulp	Proximates	Carbohydrate	753	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet pulp		Proximates	Carbohydrate	769	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Carbohydrate	954	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Rye	Seed residue		Proximates	Carbohydrate	627	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Carbohydrate	829	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Carbohydrate	525	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Carbohydrate	748	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Carbohydrate	850	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Carbohydrate	743	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Carbohydrate	828	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Carbohydrate	803	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Orange	Orange pulp, dried		Proximates	Carbohydrate	790	g/kg DM	Citrus by-products as ruminant feeds: A review
Fish, unspecified	Fish meal	Low temperature dried	Proximates	Carbohydrate	6	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed

Wheat	Wheat gluten		Proximates	Carbohydrate	129	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed
Soy	Soy protein concentrate		Proximates	Carbohydrate	38	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed

Beef	Solid cattle slaughterhouse wastes		Proximates	Carbohydrate	1	g/kg	Anaerobic co-digestion of solid slaughterhouse wastes with agro-residues: Synergistic and antagonistic interactions determined in batch digestion assays
Wheat	Wheat bran extract	High starch. Origin of glucose is mainly starch	Proximates	Carbohydrate	61.8	% DM	Comparison of two wheat bran extracts in the sheet extrusion process
Wheat	Wheat bran extract	High protein	Proximates	Carbohydrate	29.8	% DM	Comparison of two wheat bran extracts in the sheet extrusion process

Bolti	Bolti fish	Whole	Proximates	Carbohydrate	1.32	% DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Bolti	Bolti fish	Flesh only	Proximates	Carbohydrate	1.02	% DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate

Fish, unspecified	Fish protein isolate		Proximates	Carbohydrate	0	% DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Proximates	Carbohydrate	60.3	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Proximates	Carbohydrate	68.4	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Apple	Apple pomace, dried		Proximates	Carbohydrate	48.62	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Potato	Potato peel		Proximates	Carbohydrate	60.2-63	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals

Tomatoes	Tomato pomace		Proximates	Carbohydrate	4.5	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Potato	Potato peel	Mature potato peel - potatoes harvested after 20 weeks	Proximates	Carbohydrate	4.97	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato
Potato	Potato peel	Young potato peel - potatoes harvested after 14 weeks	Proximates	Carbohydrate	7.64	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato

Distillery by-products, unspecified	Distillers solids	Wet	Waste compounds	Carbohydrate (crude) digestibility	81.7	%	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Soy	Soybean meal	Soya bean	Proximates	Carbohydrate, crude (N-free extract + crude fibre)	412	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed cake		Proximates	Carbohydrate, crude (N-free extract + crude fibre)	436	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Potato	Potato peel		Proximates	Carbohydrate, crude (N-free extract + crude fibre)	60.2	%	Production of alkaline protease by a thermophilic Bacillus subtilis under solid-state fermentation (SSF) condition using Imperata cylindrica grass and potato peel as low-cost medium: Characterization and application of enzyme in detergent formulation
Apple	Apple pomace	From juice making	Proximates	Carbohydrate, non-fibre	281.45	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making

Apple	Apple pomace	From puree making	Proximates	Carbohydrate, non-fibre	426.65	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Tomatoes	Tomato	Cull	Proximates	Carbohydrate, non-structural	40-60	%	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet pulp		Proximates	Carbohydrate, non-structural	42.09	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Carbohydrate, non-structural	50.31	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Sugar beet	Sugar beet pulp		Proximates	Carbohydrate, non-structural	46.87	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Carbohydrate, non-structural	42.08	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Carbohydrate, non-structural	38.01	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Rice	Rice bran		Proximates	Carbohydrate, non-structural	32.9	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Carbohydrate, non-structural	51.5	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Carbohydrate, non-structural	55.39	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Almond	Almond hulls		Proximates	Carbohydrate, non-structural	50.45	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Carbohydrate, non-structural	66.73	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Carbohydrate, non-structural	74.55	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Citrus, unspecified	Citrus pulp		Proximates	Carbohydrate, non-structural	62.06	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Carbohydrate, non-structural	61.93	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Carbohydrate, non-structural	63.44	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Bakery	Bakery waste		Proximates	Carbohydrate, non-structural	64.3	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Carbohydrate, non-structural	29.24	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Carbohydrate, non-structural	28.33	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Wheat	Wheat mill run		Proximates	Carbohydrate, non-structural	42.82	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Carbohydrate, non-structural	6.45	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Carbohydrate, non-structural	29.58	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Carbohydrate, non-structural	13.13	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Carbohydrate, non-structural	20.11	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Carbohydrate, non-structural	15.61	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Distillers grain	Distillers grain		Proximates	Carbohydrate, non-structural	13.57	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat	Whole crop. Flowering cultivar Phelivan	Proximates	Carbohydrate, non-structural	10.5	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Phelivan	Proximates	Carbohydrate, non-structural	7	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Dough cultivar Phelivan	Proximates	Carbohydrate, non-structural	3.7	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Flowering cultivar Gonen	Proximates	Carbohydrate, non-structural	10.1	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Gonen	Proximates	Carbohydrate, non-structural	6.8	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Dough cultivar Gonen	Proximates	Carbohydrate, non-structural	3.3	% DM	ECN Phyllis 2

Sugar beet	Sugar beet pulp		Proximates	Carbohydrate, non-structural accounting for NDFCP	46.39	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Carbohydrate, non-structural accounting for NDFCP	54.26	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Carbohydrate, non-structural accounting for NDFCP	49.79	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Rice	Rice bran		Proximates	Carbohydrate, non-structural accounting for NDFCP	44.07	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Carbohydrate, non-structural accounting for NDFCP	40.11	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Carbohydrate, non-structural accounting for NDFCP	35.1	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Almond	Almond hulls		Proximates	Carbohydrate, non-structural accounting for NDFCP	53.32	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Carbohydrate, non-structural accounting for NDFCP	56.94	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Carbohydrate, non-structural accounting for NDFCP	52.54	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Citrus, unspecified	Citrus pulp		Proximates	Carbohydrate, non-structural accounting for NDFCP	67.08	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Carbohydrate, non-structural accounting for NDFCP	74.79	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Carbohydrate, non-structural accounting for NDFCP	62.8	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Bakery	Bakery waste		Proximates	Carbohydrate, non-structural accounting for NDFCP	65.85	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Carbohydrate, non-structural accounting for NDFCP	64.92	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Carbohydrate, non-structural accounting for NDFCP	65.26	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Wheat	Wheat mill run		Proximates	Carbohydrate, non-structural accounting for NDFCP	32.78	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Carbohydrate, non-structural accounting for NDFCP	33.25	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Carbohydrate, non-structural accounting for NDFCP	45.77	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Carbohydrate, non-structural accounting for NDFCP	15.68	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Carbohydrate, non-structural accounting for NDFCP	34.29	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Carbohydrate, non-structural accounting for NDFCP	18.36	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Distillers grain	Distillers grain		Proximates	Carbohydrate, non-structural accounting for NDFCP	32.92	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Carbohydrate, non-structural accounting for NDFCP	29.54	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Carbohydrate, non-structural accounting for NDFCP	30.32	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Apple	Apple pomace		Proximates	Carbohydrate, water soluble	56	g/kg DM	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace
Grape	Grape pomace		Proximates	Carbohydrate, water soluble	28	g/kg DM	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace

Bamboo	Bamboo shoot shells		Proximates	Carbohydrate, water soluble	39	g/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Rice	Rice straw		Proximates	Carbohydrate, water soluble	36	g/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep

Wheat	Wheat bran		Proximates	Carbohydrate, water soluble	90	g/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Citrus, unspecified	Citrus pulp, dried		Proximates	Carbohydrate, water soluble	246	g/kg DM	Citrus by-products as ruminant feeds: A review
Wheat	Wheat forage	Fresh	Proximates	Carbohydrate, water soluble	10.6	% DM	Feedipedia
Rape	Rape forage	Fresh	Proximates	Carbohydrate, water soluble	11.3	% DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Carbohydrate, water soluble	71.6	% DM	Feedipedia
Banana	Banana fruits, ensiled	Mature, ensiled	Proximates	Carbohydrate, water soluble	17.3	% DM	Feedipedia

Wheat	Char from wheat straw	1218 fully ripe wheat straw samples collected in China	Proximates	Carbohydrate, water soluble	2.39	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Proximates	Carbohydrate, water soluble	2.39	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Proximates	Carbohydrate, water soluble	2.83	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rape	Rape straw	490 fully ripe rape straw samples collected in China	Proximates	Carbohydrate, water soluble	2.34	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Proximates	Carbohydrate, water soluble	2.53	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Potato	Potato peel	A review of different publications	Proximates	Carbohydrate, water soluble	10.0	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production

Babassu	Babassu cake		Proximates	Carbohydrates	9.36	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Canola	Canola cake		Proximates	Carbohydrates	22.08	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Castor	Castor seed cake		Proximates	Carbohydrates	13.72	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Sunflower	Sunflower cake		Proximates	Carbohydrates	23.47	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Beef	Paunch		Proximates	Carbohydrates	78.4	% of total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Dissolved air flotation sludge		Proximates	Carbohydrates	46.3	% of total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Soft offal		Proximates	Carbohydrates	14	% of total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Mixture of paunch, dissolved air flotation sludge and soft offal at annual production ratios		Proximates	Carbohydrates	41	% of total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Hop	Hops		Proximates	Carbohydrates, available	3.8	g/100g	NOSHAN
Barley	Malted barley germs		Proximates	Carbohydrates, available	11.1	g/100g	NOSHAN
Rice	Rice husk	Ash	Inorganics	Carbon	29.64	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Silica powder	Inorganics	Carbon	0	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash

Nuts, unspecified	Nut shells	Cashew	Inorganics	Carbon	48.7	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shells	Cashew, de-oiled	Inorganics	Carbon	34.63	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Olive	Olive stones		Inorganics	Carbon	51.5	%	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive stones	Carbonization solid product	Inorganics	Carbon	89.5	%	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive stones	Vacuum carbonization solid product	Inorganics	Carbon	90.8	%	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp		Inorganics	Carbon	56.7	%	Conversion of olive wastes to volatiles and carbon adsorbents

Olive	Olive pulp	Carbonization solid product	Inorganics	Carbon	90.5	%	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp	Vacuum carbonization solid product	Inorganics	Carbon	91.7	%	Conversion of olive wastes to volatiles and carbon adsorbents
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Carbon	0.06	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Carbon	2.9	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Carbon	0.04	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Carbon	2.2	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Carbon	5	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Carbon	0.07	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Carbon	2.3	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Carbon	0.08	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Carbon	2.5	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Carbon	9	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Carbon	0.05	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Carbon	2.1	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Carbon	5.6	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Carbon	7.4	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Carbon	4.8	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Olive	Olive husk		Inorganics	Carbon	47.16	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Inorganics	Carbon	50	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Inorganics	Carbon	50.7	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Inorganics	Carbon	52.8	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura

Grape	Grape waste		Inorganics	Carbon	47.22	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Coconut	Char from coconut shell	Char produced at 750°C	Inorganics	Carbon	88.95	%	ECN Phyllis 2
Grape	Char from grape residue	Residue from wine production, pyrolysis in packed bed (280-530°C deg C radial profile)	Inorganics	Carbon	68.4	%	ECN Phyllis 2
Rice	Char from rice hulls		Inorganics	Carbon	24.4	%	ECN Phyllis 2
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Carbon	81.5	%	ECN Phyllis 2
Grapefruit	Grapefruit skin char	GrapefuitChar produced at 700°C from grapefruit skin	Inorganics	Carbon	76.77	%	ECN Phyllis 2

Orange	Orange skin char	OrangeCarbonization under N2 for 2 hours at 700°C	Inorganics	Carbon	72.04	%	ECN Phyllis 2
Poultry	Pyrolysis char from skimmings poultry processing	600°C pyrolysis	Inorganics	Carbon	55.55	%	ECN Phyllis 2
Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Carbon	65.66	%	ECN Phyllis 2

Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Carbon	71.03	%	ECN Phyllis 2
Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Carbon	79.47	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 400/60/0. Combustion temperature: 400°C, 60 minutes, 0% oxygen	Inorganics	Carbon	55.25	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Carbon	68.06	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Carbon	68.06	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Carbon	1.17	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Carbon	56.44	%	ECN Phyllis 2
Olive	Char from olive husks	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Carbon	78.6	%	ECN Phyllis 2
Olive	Char from olive husks		Inorganics	Carbon	64.7	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 623 K; S-Co2 = 305 m2/g	Inorganics	Carbon	75.71	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at 873 K; S-N2 = 85 m2/g, S-CO2 = 548 m2/g	Inorganics	Carbon	91.85	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 1123 K; S-CO2 = 737 m2/g	Inorganics	Carbon	92.86	%	ECN Phyllis 2

Peanuts	Char from peanut shells	Char produced at 350°C	Inorganics	Carbon	68.84	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 600°C	Inorganics	Carbon	81.78	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 850°C	Inorganics	Carbon	81.05	%	ECN Phyllis 2
Rice	Rice straw char	Char from pyrolysis at 490°C	Inorganics	Carbon	40.98	%	ECN Phyllis 2
Straw	Straw		Inorganics	Carbon	44.21	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Carbon	45.95	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Carbon	42.46	%	ECN Phyllis 2
Wheat	Char from wheat straw	Char from fluid bed gasifier	Inorganics	Carbon	52.02	%	ECN Phyllis 2
Wheat	Char from wheat straw	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Carbon	54.79	%	ECN Phyllis 2
Wheat	Wheat straw char		Inorganics	Carbon	66.4	%	ECN Phyllis 2
Sugar cane	Sugar cane trash	Ground pellets	Inorganics	Carbon	41.55	%	ECN Phyllis 2

Sugar beet	Sugar beet		Inorganics	Carbon	44.5	%	ECN Phyllis 2
Sugar cane	Sugar cane leaves	Higher heating value given as 16.000-17600 kJ/kg; in Biomass and Bioenergy 13 (1997) 141-146 it is given as 17.430 kJ/kg. The higher value may apply to dry ash-free material.	Inorganics	Carbon	26.63	%	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Carbon	6.89	%	ECN Phyllis 2
Bean	Bean plant		Inorganics	Carbon	6.21	%	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Carbon	42.87	%	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Carbon	2.36	%	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Carbon	3.6	%	ECN Phyllis 2

Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Carbon	2.89	%	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Carbon	7.5	%	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Carbon	3.99	%	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Carbon	3.45	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Carbon	42.7	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Carbon	45.79	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Carbon	46.2	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Carbon	45.31	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Carbon	44.98	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Inorganics	Carbon	49.94	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Carbon	47.9	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Carbon	42.89	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Carbon	46.5	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Carbon	46.74	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Carbon	44.43	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Carbon	47.71	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Carbon	46.2	%	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Carbon	45.88	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Carbon	50.14	%	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Carbon	41.05	%	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Carbon	43.74	%	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Carbon	43.24	%	ECN Phyllis 2
Cacao/cocoa	Cacao shells	Report JOU2-CT93-0397; data from K. Lassing, E. Olsson and L. Waldheim, TPS	Inorganics	Carbon	42.53	%	ECN Phyllis 2
Cacao/cocoa	Cacao hulls		Inorganics	Carbon	48.23	%	ECN Phyllis 2
Coconut	Coconut shell	Coconuts shells from Madal, Mozambique	Inorganics	Carbon	49.41	%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Carbon	50.22	%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Carbon	47.43	%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Carbon	44.48	%	ECN Phyllis 2

Coconut	Coconut fibre	Coir	Inorganics	Carbon	15.94	%	ECN Phyllis 2
Coconut	Coconut fibre dust	Coir. Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Inorganics	Carbon	47.17	%	ECN Phyllis 2
Coconut	Coconut fibre dust	Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Inorganics	Carbon	50.29	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 4.2% (obtained with extraction with acetone/water)	Inorganics	Carbon	50.34	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 1, samples from Trabzon, Turkey	Inorganics	Carbon	41.07	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 2, samples from Trabzon, Turkey	Inorganics	Carbon	40.94	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 3, samples from Trabzon, Turkey	Inorganics	Carbon	41	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 4, samples from Trabzon, Turkey	Inorganics	Carbon	40.74	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Carbon	51.6	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Carbon	40.81	%	ECN Phyllis 2

Nuts, unspecified	Nut seedcoat	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 19.6% (obtained with extraction with alcohol/benzene)	Inorganics	Carbon	50.08	%	ECN Phyllis 2
Olive	Olive		Inorganics	Carbon	53.61	%	ECN Phyllis 2
Olive	Olive		Inorganics	Carbon	49.26	%	ECN Phyllis 2
Olive	Olive		Inorganics	Carbon	52.08	%	ECN Phyllis 2
Olive	Olive cake		Inorganics	Carbon	48.67	%	ECN Phyllis 2
Olive	Olive husk	Biochemical composition on extractive free basis. Concentration of extractives: 8.1% (obtained with extraction with alcohol/benzene)	Inorganics	Carbon	48	%	ECN Phyllis 2

Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Carbon	52.8	%	ECN Phyllis 2
Olive	Olive husk	Ash type: 815°C	Inorganics	Carbon	44.69	%	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Carbon	49.59	%	ECN Phyllis 2
Olive	Olive pits		Inorganics	Carbon	48.81	%	ECN Phyllis 2
Olive	Olive pits	S-N2 = 0,6 m2/g; S-CO2 = 53 m2/g; see for char 1825, 1826 and 1827	Inorganics	Carbon	46.39	%	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Carbon	49.59	%	ECN Phyllis 2
Olive	Olive residue	Oily refuse from olive processing	Inorganics	Carbon	39	%	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Carbon	34.13	%	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Carbon	42.58	%	ECN Phyllis 2
Olive	Olive residue		Inorganics	Carbon	41.64	%	ECN Phyllis 2
Olive	Olive residue		Inorganics	Carbon	40.79	%	ECN Phyllis 2
Olive	Olive waste	Country: Spain	Inorganics	Carbon	40.77	%	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Carbon	42.97	%	ECN Phyllis 2
Olive	Olive husk	Exhausted	Inorganics	Carbon	47.63	%	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Carbon	46.82	%	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Carbon	49.05	%	ECN Phyllis 2

Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Carbon	47.91	%	ECN Phyllis 2
Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Carbon	49.82	%	ECN Phyllis 2

Olive	Orujillo	Wood matter from pressed oil stone	Inorganics	Carbon	46.2	%	ECN Phyllis 2
Cherry	Cherry pits		Inorganics	Carbon	50.21	%	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Carbon	37.3	%	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Carbon	46.46	%	ECN Phyllis 2
Peach	Peach pits		Inorganics	Carbon	53	%	ECN Phyllis 2
Peach	Peach pits		Inorganics	Carbon	49.14	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Carbon	46.41	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Carbon	46.41	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Carbon	48.79	%	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Carbon	32.71	%	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Carbon	49.73	%	ECN Phyllis 2
Apricot	Apricot stones	Apricot stones as waste product of canning industry, Bulgaria	Inorganics	Carbon	48.11	%	ECN Phyllis 2
Babassu	Babassu husks		Inorganics	Carbon	50.31	%	ECN Phyllis 2

Coffee	Coffee husk	Parchment	Inorganics	Carbon	41.65	%	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Inorganics	Carbon	43.78	%	ECN Phyllis 2
Grape	Grape seeds		Inorganics	Carbon	49.91	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Kukui. Charcoal yield 58.6% at 1 MPa, fixed-C yield 41.4%	Inorganics	Carbon	55.76	%	ECN Phyllis 2
Lemon	Lemon pellets	Lemon. Ash type: 815°C	Inorganics	Carbon	40.41	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Inorganics	Carbon	58.3	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia	Inorganics	Carbon	54.41	%	ECN Phyllis 2
Millet	Millet husk		Inorganics	Carbon	42.77	%	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Carbon	41.82	%	ECN Phyllis 2
Apple	Apple pomace		Inorganics	Carbon	47.6	% d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Carbon	45.59	% d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Carbon	46.28	% d.b.	NOSHAN
Sunflower	Sunflower oil cake	By-product. Helianthus annuus (seed)	Inorganics	Carbon	43.6	% d.b.	Cropgen database
Hop	Hops		Inorganics	Carbon	46.94	% d.b.	NOSHAN

Rice	Rice husk	Before soaking pre-treatment	Inorganics	Carbon	45.48	% d.b.	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk, dried	Soaked rice husks, dried	Inorganics	Carbon	41.27	% d.b.	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Sugar by-products, unspecified	Bagasse		Inorganics	Carbon	45.6	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Inorganics	Carbon	46.1	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Grape	Grape marc		Inorganics	Carbon	48.59	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Inorganics	Carbon	48.23	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Inorganics	Carbon	49.82	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape seeds		Inorganics	Carbon	55.44	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Inorganics	Carbon	54.33	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Inorganics	Carbon	51.35	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Tomatoes	Tomato peel		Inorganics	Carbon	56.8	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Inorganics	Carbon	57.3	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Inorganics	Carbon	52.5	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato meal		Inorganics	Carbon	49.3	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Inorganics	Carbon	55	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Inorganics	Carbon	56	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Inorganics	Carbon	76.4	% d.b.	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Inorganics	Carbon	79.9	% d.b.	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Sugar cane	Sugar cane bagasse		Inorganics	Carbon	38.3	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Sugar cane	Sugar cane bagasse		Inorganics	Carbon	43.79	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations

Cotton	Cotton stalk		Inorganics	Carbon	47.07	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Inorganics	Carbon	43.6	% d.b.	Cropgen database
Apple	Apple cake		Inorganics	Carbon	44.3	% d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Carbon	43.38	% d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Carbon	51	% d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Carbon	38.22	% d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Carbon	56.8	% d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Carbon	38.7	% d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Carbon	38.24	% d.b.	NOSHAN

Grape	Grape pomace		Inorganics	Carbon	54.59	% d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Carbon	44.87	% d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Carbon	46	% d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Carbon	54.51	% d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Carbon	43.61	% d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Carbon	39.74	% d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Carbon	42.96	% d.b.	NOSHAN
Potato	Potato skin		Inorganics	Carbon	47.35	% d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Carbon	49.92	% d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Carbon	38	% d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Carbon	45.01	% d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Carbon	54.43	% d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Carbon	45.69	% d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Carbon	43.76	% d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Carbon	57.17	% d.b.	NOSHAN
Rice	Rice husk		Inorganics	Carbon	42.3	% d.b.	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Variety: Lemont LG	Inorganics	Carbon	37.6	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: ROK 14	Inorganics	Carbon	42.1	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: CP4	Inorganics	Carbon	38.7	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: Pa Potho	Inorganics	Carbon	42.6	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis

Sunflower	Sunflower oil cake		Inorganics	Carbon	43.6	% dry ash free basis	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake
Rice	Rice husk	Raw	Inorganics	Carbon	42.2	% dry ash free basis	Development of photoluminescent glass derived from rice husk
Babassu	Babassu cake		Inorganics	Carbon	45.5	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Canola	Canola cake		Inorganics	Carbon	50.2	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Castor	Castor seed cake		Inorganics	Carbon	45.7	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower cake		Inorganics	Carbon	49.8	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Sunflower	Sunflower extracted bagasse		Inorganics	Carbon	53.2	wt% daf	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Sunflower	Sunflower extracted atmosphere oil		Inorganics	Carbon	64.7	wt% daf	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Sunflower	Sunflower extracted atmosphere oil	Nitrogen	Inorganics	Carbon	69.8	wt% daf	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Rape	Rapeseed straw	Brassica rapa spp. Oleifera	Inorganics	Carbon	44.5	% total solids	Cropgen database
Sugar beet	Sugar beet tops	Residual	Inorganics	Carbon	39.9	% total solids	Cropgen database

Beef	Paunch		Inorganics	Carbon	46.8	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Dissolved air flotation sludge		Inorganics	Carbon	43.2	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Soft offal		Inorganics	Carbon	65.8	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Mixture of paunch, dissolved air flotation sludge and soft offal at annual production ratios		Inorganics	Carbon	54.5	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Potato	Potato peel		Inorganics	Carbon	51.7	%	Production of alkaline protease by a thermophilic Bacillus subtilis under solid-state fermentation (SSF) condition using Imperata cylindrica grass and potato peel as low-cost medium: Characterization and application of enzyme in detergent formulation
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Carbon	47.6	% total solids	Co-digestion of source segregated domestic food waste to improve process stability

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Luton, UK	Inorganics	Carbon	51.2	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Hackney, UK	Inorganics	Carbon	51.3	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Ludlow, UK	Inorganics	Carbon	48.3	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Eastleigh, UK	Inorganics	Carbon	48.8	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Forssa, Finland	Inorganics	Carbon	49.4	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Treviso, Italy	Inorganics	Carbon	47.2	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste (to digester) obtained from collection rounds in Lisbon, Portugal	Inorganics	Carbon	54.8	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Inorganics	Carbon	42.05	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Inorganics	Carbon	38.82	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rape	Rape straw	490 fully ripe rape straw samples collected in China	Inorganics	Carbon	41.75	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Inorganics	Carbon	44.26	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Poultry	Hatchery waste		Inorganics	Carbon (total organic)	198000	mg/kg	Composition of Australian meat chicken hatchery waste
Beef	Cattle manure	Slurry	Inorganics	Carbon (total organic)	38.9	% total solids	Co-digestion of source segregated domestic food waste to improve process stability

Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Carbon (total organic)	47.6	% total solids	Co-digestion of source segregated domestic food waste to improve process stability
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Luton, UK	Inorganics	Carbon (total organic)	51.2	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Hackney, UK	Inorganics	Carbon (total organic)	51.3	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Ludlow, UK	Inorganics	Carbon (total organic)	48.3	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Eastleigh, UK	Inorganics	Carbon (total organic)	48.76	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Banana	Banana	Musa paradisiaca, growth stage at harvest: peeling	Inorganics	Carbon content	0.465	g/g volatile solids	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Inorganics	Carbon content	0.468	g/g volatile solids	Cropgen database

Wheat	Wheat	Triticum aestivum, growth stage at harvest: straw	Inorganics	Carbon content	0.499	g/g volatile solids	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: vegetative stage+root	Inorganics	Carbon content	1.03	g/g volatile solids	Cropgen database
Rape	Oil seed rape	Brassica napus, growth stage at harvest: reproductive stage (pod filled)	Inorganics	Carbon content	1.48	g/g volatile solids	Cropgen database
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Carbon dioxide (CO2)	18	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Carbon dioxide (CO2)	34	% ash	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Carbon dioxide (CO2)	20.12	% ash	ECN Phyllis 2
Beef	Paunch		Inorganics	Carbon dioxide (CO2)	45	% ash	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Dissolved air flotation sludge		Inorganics	Carbon dioxide (CO2)	40	% ash	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Soft offal		Inorganics	Carbon dioxide (CO2)	31	% ash	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Mixture of paunch, dissolved air flotation sludge and soft offal at annual production ratios		Inorganics	Carbon dioxide (CO2)	37	% ash	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Apple	Apple pomace		Inorganics	Carbon, fixed	8.18	% d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Carbon, fixed	8.35	% d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Carbon, fixed	9.98	% d.b.	NOSHAN
Hop	Hops		Inorganics	Carbon, fixed	6.43	% d.b.	NOSHAN

Rice	Rice husk	Before soaking pre-treatment	Inorganics	Carbon, fixed	15.02	% d.b.	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk, dried	Soaked rice husks, dried	Inorganics	Carbon, fixed	14.32	% d.b.	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Sugar by-products, unspecified	Bagasse		Inorganics	Carbon, fixed	18	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Inorganics	Carbon, fixed	12.8	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Sugar cane	Sugar cane bagasse		Inorganics	Carbon, fixed	15.8	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Sugar cane	Sugar cane bagasse		Inorganics	Carbon, fixed	13.3	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Cotton	Cotton stalk		Inorganics	Carbon, fixed	18.8	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Apple	Apple cake		Inorganics	Carbon, fixed	11.65	% d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Carbon, fixed	13.49	% d.b.	NOSHAN

Cabbage	Cabbage		Inorganics	Carbon, fixed	7.65	% d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Carbon, fixed	0.54	% d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Carbon, fixed	1.03	% d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Carbon, fixed	1.63	% d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Carbon, fixed	12.72	% d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Carbon, fixed	8.99	% d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Carbon, fixed	6.14	% d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Carbon, fixed	7.93	% d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Carbon, fixed	6.79	% d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Carbon, fixed	3.37	% d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Carbon, fixed	3.19	% d.b.	NOSHAN
Potato	Potato skin		Inorganics	Carbon, fixed	2.8	% d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Carbon, fixed	11.22	% d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Carbon, fixed	1.96	% d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Carbon, fixed	8.09	% d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Carbon, fixed	6.46	% d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Carbon, fixed	10.75	% d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Carbon, fixed	8.02	% d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Carbon, fixed	3.55	% d.b.	NOSHAN

Rice	Rice husk		Inorganics	Carbon, fixed	13.2	% d.b.	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Variety: Lemont LG	Inorganics	Carbon, fixed	13.6	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: ROK 14	Inorganics	Carbon, fixed	13.9	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: CP4	Inorganics	Carbon, fixed	12.4	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis

Rice	Rice husk	Variety: Pa Potho	Inorganics	Carbon, fixed	14.2	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravimetric analysis
Rice	Rice husk	Raw	Inorganics	Carbon, fixed	12.5	% d.b.	Development of photoluminescent glass derived from rice husk
Nuts, unspecified	Nut shells	Cashew	Inorganics	Carbon, fixed	19.26	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shells	Cashew, de-oiled	Inorganics	Carbon, fixed	19.2	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Sunflower	Sunflower extracted bagasse		Inorganics	Carbon, fixed	10.5	%	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Olive	Olive husk		Inorganics	Carbon, fixed	15.87	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Inorganics	Carbon, fixed	19.7	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Inorganics	Carbon, fixed	19.4	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura

Olive	Olive husk		Inorganics	Carbon, fixed	16.28	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive mill wastewater		Inorganics	Carbon, fixed	2.02	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Grape	Grape waste		Inorganics	Carbon, fixed	20.74	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Coconut	Char from coconut shell	Char produced at 750°C	Inorganics	Carbon, fixed	87.17	%	ECN Phyllis 2
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Carbon, fixed	79.1	%	ECN Phyllis 2

Grapefruit	Grapefruit skin char	GrapefuitChar produced at 700°C from grapefruit skin	Inorganics	Carbon, fixed	71.8	%	ECN Phyllis 2
Poultry	Pyrolysis char from skimmings poultry processing	600°C pyrolysis	Inorganics	Carbon, fixed	71.17	%	ECN Phyllis 2
Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Carbon, fixed	56.18	%	ECN Phyllis 2
Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Carbon, fixed	74.63	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 400/60/0. Combustion temperature: 400°C, 60 minutes, 0% oxygen	Inorganics	Carbon, fixed	47	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Carbon, fixed	60.35	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Carbon, fixed	48.32	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Carbon, fixed	48.8	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 623 K; S-Co2 = 305 m2/g	Inorganics	Carbon, fixed	54.53	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at 873 K; S-N2 = 85 m2/g, S-CO2 = 548 m2/g	Inorganics	Carbon, fixed	75.62	%	ECN Phyllis 2

Olive	Char from olive pits	Char from olive stones at T = 1123 K; S-CO2 = 737 m2/g	Inorganics	Carbon, fixed	76.24	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 350°C	Inorganics	Carbon, fixed	42.3	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 600°C	Inorganics	Carbon, fixed	55.1	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 850°C	Inorganics	Carbon, fixed	57	%	ECN Phyllis 2
Straw	Straw		Inorganics	Carbon, fixed	16.34	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Carbon, fixed	35.86	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Carbon, fixed	42.26	%	ECN Phyllis 2
Wheat	Char from wheat straw	Char from fluid bed gasifier	Inorganics	Carbon, fixed	43.81	%	ECN Phyllis 2

Sugar cane	Sugar cane leaves	Higher heating value given as 16.000-17600 kJ/kg; in Biomass and Bioenergy 13 (1997) 141-146 it is given as 17.430 kJ/kg. The higher value may apply to dry ash-free material.	Inorganics	Carbon, fixed	9.97	%	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Carbon, fixed	2.62	%	ECN Phyllis 2
Bean	Bean plant		Inorganics	Carbon, fixed	1.87	%	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Carbon, fixed	14.91	%	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Carbon, fixed	0.57	%	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Carbon, fixed	1.1	%	ECN Phyllis 2

Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Carbon, fixed	0.85	%	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Carbon, fixed	2.41	%	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Carbon, fixed	1.6	%	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Carbon, fixed	1.15	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Carbon, fixed	18.93	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Carbon, fixed	22.89	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Carbon, fixed	19.22	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Carbon, fixed	17.64	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Carbon, fixed	21.74	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Carbon, fixed	22.7	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Carbon, fixed	15.5	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Carbon, fixed	18.76	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Carbon, fixed	19.27	%	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Carbon, fixed	18.79	%	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Carbon, fixed	17.97	%	ECN Phyllis 2
Cacao/cocoa	Cacao hulls		Inorganics	Carbon, fixed	23.8	%	ECN Phyllis 2
Coconut	Coconut fibre		Inorganics	Carbon, fixed	25.3	%	ECN Phyllis 2

Coconut	Coconut shell	Coconuts shells from Madal, Mozambique	Inorganics	Carbon, fixed	22.09	%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Carbon, fixed	17.7	%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Carbon, fixed	22.1	%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Carbon, fixed	25.24	%	ECN Phyllis 2
Coconut	Coconut fibre dust	Coir. Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Inorganics	Carbon, fixed	26.8	%	ECN Phyllis 2
Coconut	Coconut fibre dust	Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Inorganics	Carbon, fixed	29.7	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 1, samples from Trabzon, Turkey	Inorganics	Carbon, fixed	22.86	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 2, samples from Trabzon, Turkey	Inorganics	Carbon, fixed	23.76	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 3, samples from Trabzon, Turkey	Inorganics	Carbon, fixed	23.26	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 4, samples from Trabzon, Turkey	Inorganics	Carbon, fixed	26.47	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Carbon, fixed	28.3	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Carbon, fixed	16.93	%	ECN Phyllis 2
Olive	Olive cake		Inorganics	Carbon, fixed	17.13	%	ECN Phyllis 2

Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Carbon, fixed	32.8	%	ECN Phyllis 2
Olive	Olive husk	Ash type: 815°C	Inorganics	Carbon, fixed	24.42	%	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Carbon, fixed	15.29	%	ECN Phyllis 2
Olive	Olive pits		Inorganics	Carbon, fixed	18.2	%	ECN Phyllis 2
Olive	Olive pits		Inorganics	Carbon, fixed	21.2	%	ECN Phyllis 2
Olive	Olive pits	S-N2 = 0,6 m2/g; S-CO2 = 53 m2/g; see for char 1825, 1826 and 1827	Inorganics	Carbon, fixed	24.74	%	ECN Phyllis 2
Olive	Olive residue	Oily refuse from olive processing	Inorganics	Carbon, fixed	19.98	%	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Carbon, fixed	16.53	%	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Carbon, fixed	15.1	%	ECN Phyllis 2
Olive	Olive residue		Inorganics	Carbon, fixed	15.12	%	ECN Phyllis 2
Olive	Olive waste	Country: Spain	Inorganics	Carbon, fixed	17	%	ECN Phyllis 2
Olive	Olive husk	Exhausted	Inorganics	Carbon, fixed	2.76	%	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Carbon, fixed	17.81	%	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Carbon, fixed	15.99	%	ECN Phyllis 2
Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Carbon, fixed	22.11	%	ECN Phyllis 2

Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Carbon, fixed	17.76	%	ECN Phyllis 2
Olive	Orujillo	Wood matter from pressed oil stone	Inorganics	Carbon, fixed	19.68	%	ECN Phyllis 2
Cherry	Cherry pits		Inorganics	Carbon, fixed	14.8	%	ECN Phyllis 2
Cherry	Cherry pits		Inorganics	Carbon, fixed	16.07	%	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Carbon, fixed	27.73	%	ECN Phyllis 2
Peach	Peach pits		Inorganics	Carbon, fixed	19.85	%	ECN Phyllis 2
Peach	Peach pits		Inorganics	Carbon, fixed	19.8	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Carbon, fixed	15.68	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Carbon, fixed	15.67	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Carbon, fixed	16.84	%	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Carbon, fixed	11.82	%	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Carbon, fixed	22.51	%	ECN Phyllis 2

Apricot	Apricot stones	Apricot stones as waste product of canning industry, Bulgaria	Inorganics	Carbon, fixed	18.16	%	ECN Phyllis 2
Babassu	Babassu husks		Inorganics	Carbon, fixed	18.7	%	ECN Phyllis 2
Coffee	Coffee husk	Parchment	Inorganics	Carbon, fixed	24.34	%	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Inorganics	Carbon, fixed	19.03	%	ECN Phyllis 2
Grape	Grape seeds		Inorganics	Carbon, fixed	20.51	%	ECN Phyllis 2
Lemon	Lemon pellets	Lemon. Ash type: 815°C	Inorganics	Carbon, fixed	15.6	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia	Inorganics	Carbon, fixed	23.68	%	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Carbon, fixed	25.96	%	ECN Phyllis 2
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Inorganics	Carbon, fixed	17.88	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Inorganics	Carbon, fixed	14.74	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rape	Rape straw	490 fully ripe rape straw samples collected in China	Inorganics	Carbon, fixed	14.33	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Inorganics	Carbon, fixed	18.27	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Carbon/Nitrogen	59.5	M/M	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Carbon/Nitrogen	48.4	M/M	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Carbon/Nitrogen	42.3	M/M	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Carbon/Nitrogen	73.8	M/M	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Beef	Cattle manure	Slurry. Total organic carbon/total kjeldhal nitrogen	Inorganics	Carbon/Nitrogen	11.1	-	Co-digestion of source segregated domestic food waste to improve process stability
Beef	Cattle manure	Slurry. Biodegradable C/total kjeldhal nitrogen. Biodegradable carbon was calculated by deducting lignin carbon from TOC	Inorganics	Carbon/Nitrogen	8.15	-	Co-digestion of source segregated domestic food waste to improve process stability
Food, unspecified	Food leftovers	Domestic food waste (UK). Total organic carbon/total kjeldhal nitrogen	Inorganics	Carbon/Nitrogen	13.9	-	Co-digestion of source segregated domestic food waste to improve process stability

Food, unspecified	Food leftovers	Domestic food waste (UK). Biodegradable carbon/total kjeldhal nitrogen	Inorganics	Carbon/Nitrogen	13.6	-	Co-digestion of source segregated domestic food waste to improve process stability
Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Carbon/nitrogen ratio	7.5	N/A	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Carbon/nitrogen ratio	7.7	N/A	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Carbon/nitrogen ratio	7.1	N/A	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Carbon/nitrogen ratio	8.7	N/A	Composted slaughterhouse waste as organic fertilizer

Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Inorganics	Carbon/nitrogen ratio	5.3	N/A	Composted slaughterhouse waste as organic fertilizer
Sunflower	Sunflower oil cake	By-product. Helianthus annuus (seed)	Inorganics	Carbon/nitrogen ratio	9.5	N/A	Cropgen database
Banana	Banana	Musa paradisiaca, growth stage at harvest: peeling	Inorganics	Carbon/nitrogen ratio	55.4	N/A	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: vegetative stage+root	Inorganics	Carbon/nitrogen ratio	16.37	N/A	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Inorganics	Carbon/nitrogen ratio	12.1	N/A	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Inorganics	Carbon/nitrogen ratio	11	N/A	Cropgen database

Rape	Oil seed rape	Brassica napus, growth stage at harvest: reproductive stage (pod filled)	Inorganics	Carbon/nitrogen ratio	23.8585	N/A	Cropgen database
Rape	Rape	Brassica napus, growth stage: tops	Inorganics	Carbon/nitrogen ratio	10	N/A	Cropgen database
Rape	Rapeseed straw	Brassica rapa spp. Oleifera	Inorganics	Carbon/nitrogen ratio	28	N/A	Cropgen database
Sugar beet	Sugar beet	Beta vulgaris	Inorganics	Carbon/nitrogen ratio	16	N/A	Cropgen database
Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Inorganics	Carbon/nitrogen ratio	9.5	N/A	Cropgen database
Sugar beet	Sugar beet tops	Residual	Inorganics	Carbon/nitrogen ratio	18	N/A	Cropgen database
Wheat	Wheat	Triticum aestivum, growth stage at harvest: straw	Inorganics	Carbon/nitrogen ratio	87.5	N/A	Cropgen database

Fruit and vegetables, unspecified	Market waste, fruit and vegetables	Mesophilic	Inorganics	Carbon/nitrogen ratio	20	COD/N	Cropgen database
Fruit and vegetables, unspecified	Market waste, fruit and vegetables	Thermophilic	Inorganics	Carbon/nitrogen ratio	20	COD/N	Cropgen database
Potato	Potato peel		Inorganics	Carbon/nitrogen ratio	19.9	-	Production of alkaline protease by a thermophilic Bacillus subtilis under solid-state fermentation (SSF) condition using Imperata cylindrica grass and potato peel as low-cost medium: Characterization and application of enzyme in detergent formulation

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Carotene	Tr	µg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Carrot	Carrot	Daucus carota	Vitamin fractions	Carotene, beta	200-1000	mg/kg DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Cull carrots	Vitamin fractions	Carotene, beta	200-1000	mg/kg DM	Vegetable waste as animal feed paper
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Vitamin fractions	Carotene, beta	0.86	µg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Vitamin fractions	Carotenoids, total	75.02	µg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains

Milk	Milk	Holstein Friesian cows, Spain	Proximates	Casein	82.65	% of protein	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Casein	82.70	% of protein	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Cheese	Whey	Milk	Proximates	Casein, alfa-S1	43	%	NOSHAN
Cheese	Cheese	Hard	Proximates	Casein, alfa-S1	36	%	NOSHAN
Cheese	Cheese	Soft	Proximates	Casein, alfa-S1	17	%	NOSHAN
Cheese	Cheese	Hard	Proximates	Casein, alfa-S2	10	%	NOSHAN
Cheese	Cheese	Soft	Proximates	Casein, alfa-S2	2	%	NOSHAN

Milk	Milk	Holstein Friesian cows, Spain	Proximates	Casein, alpha S1	30.80	% of protein	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Casein, alpha S1	18.92	% of protein	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Casein, alpha S2	7.50	% of protein	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Milk	Milk	Granadina goats, Spain	Proximates	Casein, alpha S2	8.52	% of protein	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Cheese	Whey	Milk	Proximates	Casein, beta	12	%	NOSHAN
Cheese	Cheese	Hard	Proximates	Casein, beta	29	%	NOSHAN
Cheese	Cheese	Soft	Proximates	Casein, beta	44	%	NOSHAN
Yoghurt	Yoghurt		Proximates	Casein, beta	67	%	NOSHAN
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Casein, beta and kappa	44.35	% of protein	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Milk	Milk	Granadina goats, Spain	Proximates	Casein, beta and kappa	55.26	% of protein	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Cheese	Cheese	Soft	Proximates	Casein, kappa	1	%	NOSHAN
Yoghurt	Yoghurt		Proximates	Casein, kappa	33	%	NOSHAN
Grape	Grape pomace		Mixed compound classes	Catchins + procyanidins	16	mg/100g	NOSHAN
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Flavanols	Catechin	14.2	mg/l	eBASIS - average of available values
Grape	Grape cane	Alphone Lavallee	Flavanols	Catechin	124.24	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Flavanols	Catechin	89.86	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Flavanols	Catechin	152.08	µg/100g cane	Chemical composition of grape canes

Grape	Grape cane	Hafizali	Flavanols	Catechin	105.32	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Flavanols	Catechin	182.48	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Isabella	Flavanols	Catechin	157.8	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Italia	Flavanols	Catechin	208.72	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Flavanols	Catechin	259.42	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Flavanols	Catechin	258.02	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Flavanols	Catechin	289.2	µg/100g cane	Chemical composition of grape canes

Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Flavanols	Catechin	0.6	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Flavanols	Catechin	0.3	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Apple	Apple pomace, dried	Dehydrated	Proximates	Cell walls, water insoluble	72.8	% DM	Feedipedia
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Cellulose	12.8	% DM	Utilization of fruit and vegetable wastes, FAO

Tomatoes	Tomato pomace	Solanum lucopersicum	Proximates	Cellulose	12	% DM	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Cellulose	11.4	% DM	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace/marc	Namily vitaceae	Proximates	Cellulose	54	% DM	Fruit waste as feed paper
Olive	Olive stones	Crude	Proximates	Cellulose	40.4	% DM	Adsorption of iron on crude olive stones
Olive	Olive tree pruning	Biomass	Proximates	Cellulose	22.3	% DM	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass
Banana	Banana bunch		Proximates	Cellulose	51.05	% DM	Binderless fiberboard from steam exploded banana bunch
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Cellulose	15.2	% DM	Utilization of fruit and vegetable wastes, FAO

Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Cellulose	13.7	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Proximates	Cellulose	7	% DM	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Cellulose	12.8	% DM	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Proximates	Cellulose	54	% DM	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Cellulose	12	% DM	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Cellulose	18.2	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Proximates	Cellulose	14.8	% DM	Utilization of fruit and vegetable wastes, FAO

Melon	Watermelon, peels	Citrullus lanatus	Proximates	Cellulose	26.4	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Cellulose	15.3	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Proximates	Cellulose	7	% DM	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Proximates	Cellulose	15.3	% DM	Vegetable waste as animal feed paper
Cucumber	Cucumber peel	Cucumis sativus	Proximates	Cellulose	17.8	% DM	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Proximates	Cellulose	5.8	% DM	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Cellulose	12	% DM	Vegetable waste as animal feed paper

Cabbage	Cabbage leaves	Brassica oleracea	Proximates	Cellulose	13.7	% DM	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Proximates	Cellulose	15.2	% DM	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Cellulose	11.4	% DM	Vegetable waste as animal feed paper
Rice	Rice husk	Variety: Lemont LG	Proximates	Cellulose	29.2	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: ROK 14	Proximates	Cellulose	33.47	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis

Rice	Rice husk	Variety: CP4	Proximates	Cellulose	25.89	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: Pa Potho	Proximates	Cellulose	35.5	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Wheat	Wheat	Whole crop. Flowering cultivar Phelivan	Proximates	Cellulose	33.7	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Phelivan	Proximates	Cellulose	28.4	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Dough cultivar Phelivan	Proximates	Cellulose	19.4	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Flowering cultivar Gonen	Proximates	Cellulose	32.9	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Gonen	Proximates	Cellulose	27.5	% DM	ECN Phyllis 2

Wheat	Wheat	Whole crop. Dough cultivar Gonen	Proximates	Cellulose	17.5	% DM	ECN Phyllis 2
Banana	Banana pintoza		Proximates	Cellulose	43.24	% DM	ECN Phyllis 2
Hop	Hops		Proximates	Cellulose	37.9	% DM	ECN Phyllis 2
Hop	Hops	Bast	Proximates	Cellulose	48.2	% DM	ECN Phyllis 2
Pineapple	Pineapple		Proximates	Cellulose	64.35	% DM	ECN Phyllis 2
Sugar cane	Sugar cane		Proximates	Cellulose	36	% DM	ECN Phyllis 2
Potato	Potato mash		Proximates	Cellulose	3.09	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Proximates	Cellulose	31.7	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Proximates	Cellulose	24.7	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Proximates	Cellulose	50.7	% DM	ECN Phyllis 2
Cacao/cocoa	Cacao shell parts, shoots		Proximates	Cellulose	12	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Cellulose	28.6	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Cellulose	29.3	% DM	ECN Phyllis 2

Coconut	Coconut fibre		Proximates	Cellulose	35.6	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Cellulose	36.7	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Cellulose	34.87	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Cellulose	36.4	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Cellulose	27.8	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Cellulose	24.4	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Cellulose	20.1	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Cellulose	29.4	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Cellulose	34.6	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Cellulose	17.8	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Cellulose	18.3	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Cellulose	15.7	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Cellulose	19.9	% DM	ECN Phyllis 2
Coconut	Coconut shell	Coconuts shells from Madal, Mozambique	Proximates	Cellulose	20	% DM	ECN Phyllis 2
Coconut	Coconut shell	Charcoal yield 41.4% at 1 MPa, fixed-C yield 30.1%	Proximates	Cellulose	24.2	% DM	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Cellulose	25.91	% DM	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Proximates	Cellulose	26.8	% DM	ECN Phyllis 2
Nuts, unspecified	Nut seedcoat	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 19.6% (obtained with extraction with alcohol/benzene)	Proximates	Cellulose	29.6	% DM	ECN Phyllis 2
Olive	Olive cake		Proximates	Cellulose	28.41	% DM	ECN Phyllis 2
Olive	Olive husk	Biochemical composition on extractive free basis. Concentration of extractives: 8.1% (obtained with extraction with alcohol/benzene)	Proximates	Cellulose	24	% DM	ECN Phyllis 2

Olive	Olive husk		Proximates	Cellulose	22	% DM	ECN Phyllis 2
Olive	Olive husk	Extractives 8.1%; compositions and heating values of char and pyrolysis oil in ID = 2264 and 2265	Proximates	Cellulose	22.2	% DM	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Proximates	Cellulose	24	% DM	ECN Phyllis 2
Olive	Olive pits	Ethanol/benzene extractives 1.5%, alpha-cellulose 28%, pentosan 18.5%	Proximates	Cellulose	28.1	% DM	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Cellulose	12	% DM	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Cellulose	13.8	% DM	ECN Phyllis 2
Apricot	Apricot stones	Apricot stones as waste product of canning industry, Bulgaria	Proximates	Cellulose	30.00	% DM	ECN Phyllis 2

Corn	Corn bran		Proximates	Cellulose	15	% DM	ECN Phyllis 2
Cotton	Cottonseed hulls		Proximates	Cellulose	49	% DM	ECN Phyllis 2
Cotton	Cottonseed	Black	Proximates	Cellulose	16	% DM	ECN Phyllis 2
Cotton	Cottonseed	High lint	Proximates	Cellulose	21	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Proximates	Cellulose	26.9	% DM	ECN Phyllis 2
Millet	Millet husk		Proximates	Cellulose	33.3	% DM	ECN Phyllis 2
Sugar beet	Sugar beet molasses	From pulp	Proximates	Cellulose	149	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Cellulose	212	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Cellulose	48	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Carrot	Carrot		Proximates	Cellulose	80	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Rye	Seed residue		Proximates	Cellulose	197	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Cellulose	452	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Cellulose	147	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Cellulose	431	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Cellulose	202	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Cellulose	203	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Cellulose	18	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Cellulose	39	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pears	Pear pomace		Proximates	Cellulose	324.3	g/kg DM	Comparative study of alkaline extraction process of hemicelluloses from pear pomace
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Cellulose	67	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Cellulose	50	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Cellulose	54	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Olive	Olive tree pruning		Proximates	Cellulose	36.6	%	Biorefining of olive tree (Olea europea) pruning

Olive	Olive tree pruning	Solid fraction from organosolv pretreatment	Proximates	Cellulose	54.4	%	Biorefining of olive tree (Olea europea) pruning
Olive	Olive tree pruning	Solid fraction after bioethanol production	Proximates	Cellulose	22.7	%	Biorefining of olive tree (Olea europea) pruning
Banana	Banana		Proximates	Cellulose	50.15	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sugar cane	Sugar cane bagasse		Proximates	Cellulose	54.87	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sponge gourd	Sponge gourd fibers		Proximates	Cellulose	66.59	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil

Palm	Palm empty fruit bunches		Proximates	Cellulose	30-50	%	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion
Grape	Grape stalks		Proximates	Cellulose	30.3	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Babassu	Babassu cake		Proximates	Cellulose	6.94	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Canola	Canola cake		Proximates	Cellulose	8.18	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Castor	Castor seed cake		Proximates	Cellulose	6.79	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower cake		Proximates	Cellulose	14.67	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Wheat	Wheat	Growth stage at harvest: pasty	Proximates	Cellulose	25.1	% total solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: milky	Proximates	Cellulose	25.1	% total solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: flowering	Proximates	Cellulose	25.1	% total solids	Cropgen database
Apple	Apple		Proximates	Cellulose	0.047	g/g volatile solids	Cropgen database
Banana	Banana		Proximates	Cellulose	0.077	g/g volatile solids	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: vegetative stage+root	Proximates	Cellulose	0.18	g/g volatile solids	Cropgen database
Carrot	Carrot		Proximates	Cellulose	0.077	g/g volatile solids	Cropgen database
Rape	Oil seed rape	Brassica napus, growth stage at harvest: reproductive stage (pod filled)	Proximates	Cellulose	0.31	g/g volatile solids	Cropgen database

Orange	Orange		Proximates	Cellulose	0.078	g/g volatile solids	Cropgen database
Potato	Potato		Proximates	Cellulose	0.039	g/g volatile solids	Cropgen database
Banana	Banana	Musa paradisiaca, growth stage at harvest: peeling	Proximates	Cellulose	0.614	g/g volatile solids	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Proximates	Cellulose	0.478	g/g volatile solids	Cropgen database
Wheat	Wheat	Triticum aestivum, growth stage at harvest: straw	Proximates	Cellulose	0.364	g/g volatile solids	Cropgen database
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Cellulose	91	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Cellulose	122	g/kg FM	Nutritive value of plantain and chicory for pigs

Apple	Apple pomace, dried		Proximates	Cellulose	8.5	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Potato	Potato peel		Proximates	Cellulose	55.2	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Tomatoes	Tomato pomace		Proximates	Cellulose	9.1	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Proximates	Cellulose	38.95	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Proximates	Cellulose	35.94	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rape	Rape straw	490 fully ripe rape straw samples collected in China	Proximates	Cellulose	38.98	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Proximates	Cellulose	38.84	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Potato	Potato peel	A review of different publications	Proximates	Cellulose	25.0	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production

Potato	Potato pulp	A review of different publications	Proximates	Cellulose	202	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Sugar cane	Sugar cane bagasse		Proximates	Cellulose, alpha	40.1	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw
Sugar cane	Sugar cane straw		Proximates	Cellulose, alpha	37.9	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw
Sugar beet	Pressed beet-pulp		Waste compounds	Chemical oxygen demand	1.22	g/g dry weight	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters

Sunflower	Sunflower oil cake		Waste compounds	Chemical oxygen demand	1.08	g O2/g dry basis	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake
Apple	Apple		Waste compounds	Chemical oxygen demand	1.36	g O2/g volatile solids	Cropgen database
Banana	Banana		Waste compounds	Chemical oxygen demand	1.52	g O2/g volatile solids	Cropgen database
Carrot	Carrot		Waste compounds	Chemical oxygen demand	1.4	g O2/g volatile solids	Cropgen database
Potato	Potato		Waste compounds	Chemical oxygen demand	1.28	g O2/g volatile solids	Cropgen database

Abattoir wastes, unspecified	Abattoir raw effluent		Waste compounds	Chemical oxygen demand	17019	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Waste compounds	Chemical oxygen demand	1004	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Waste compounds	Chemical oxygen demand	1652	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Waste compounds	Chemical oxygen demand	1541	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Waste compounds	Chemical oxygen demand	3650	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Waste compounds	Chemical oxygen demand	11	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Waste compounds	Chemical oxygen demand	9.5	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Waste compounds	Chemical oxygen demand	5.6	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Waste compounds	Chemical oxygen demand	16.9	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Waste compounds	Chemical oxygen demand	7.2	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Waste compounds	Chemical oxygen demand	8.4	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Waste compounds	Chemical oxygen demand	7.8	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Slaughterhouse wastewater		Waste compounds	Chemical oxygen demand	1000-6000	mg/l	Anaerobic treatment of slaughterhouse waste and wastewater
Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Chemical oxygen demand	2000-6200	mg/l	Waste treatment and by-products: The Science of poultry and meat processing
Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Chemical oxygen demand	5800	mg/l	Waste treatment and by-products: The Science of poultry and meat processing
Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Chemical oxygen demand	4000	mg/l	Waste treatment and by-products: The Science of poultry and meat processing

Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Chemical oxygen demand	3980-7120	mg/l	Waste treatment and by-products: The Science of poultry and meat processing
Cheese	Whey	Cheese	Waste compounds	Chemical oxygen demand, insoluble	13000	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration
Cheese	Whey	Cheese	Waste compounds	Chemical oxygen demand, insoluble		%	Amelioration of lactic acid production from cheese whey using micro-aeration
Cheese	Whey	Cheese	Waste compounds	Chemical oxygen demand, soluble	68050	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration

Sugar by-products, unspecified	Wastewater	1h settled	Waste compounds	Chemical oxygen demand, soluble	6165	mg/l	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters
Olive	Olive mill effluent		Waste compounds	Chemical oxygen demand, soluble	44.2	kg m3	Bioenergy recovery from olive mill effluent in a hybrid reactor
Pork	Piggery effluent		Waste compounds	Chemical oxygen demand, soluble	7.9	kg m3	Bioenergy recovery from olive mill effluent in a hybrid reactor
Cheese	Whey	Cheese	Waste compounds	Chemical oxygen demand, soluble	85	%	Amelioration of lactic acid production from cheese whey using micro-aeration

Food, unspecified	Food leftovers	Domestic food waste from Ludlow, UK	Waste compounds	Chemical oxygen demand, soluble	99.5	g/kg	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment
Food, unspecified	Food leftovers	Autoclaved (160C, 6.2 bars) domestic food waste from Ludlow, UK	Waste compounds	Chemical oxygen demand, soluble	117.6	g/kg	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment
Cheese	Whey	Cheese	Waste compounds	Chemical oxygen demand, total	81050	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration

Sugar by-products, unspecified	Wastewater	1h settled	Waste compounds	Chemical oxygen demand, total	6621	mg/l	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters
Olive	Olive mill effluent		Waste compounds	Chemical oxygen demand, total	48.6	kg m3	Bioenergy recovery from olive mill effluent in a hybrid reactor
Pork	Piggery effluent		Waste compounds	Chemical oxygen demand, total	17.7	kg m3	Bioenergy recovery from olive mill effluent in a hybrid reactor
Animal by-products, unspecified	Greaves		Waste compounds	Chemical oxygen demand, total	1045	g/kg wet waste	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments

Animal by-products, unspecified	Rinds		Waste compounds	Chemical oxygen demand, total	611	g/kg	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments
Orange	Orange peel	Orange	Undesirable components	Chlopyriphos-ethyl	0.08	mg/kg	NOSHAN
Grape	Grape pomace		Undesirable components	Chlopyriphos-ethyl	0.099	mg/kg	NOSHAN
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Inorganics	Chloride	64	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Citrus, unspecified	Citrus pulp, dried		Inorganics	Chloride	0.04	% d.b.	2012FeedComp
Citrus, unspecified	Citrus molasses		Inorganics	Chloride	0.11	% d.b.	2012FeedComp
Rice	Rice hull		Inorganics	Chloride	0.08	% d.b.	2012FeedComp
Poultry	Feather meal	Hydrolyzed	Inorganics	Chloride	0.2	% d.b.	2012FeedComp

Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Inorganics	Chloride	0.15	% d.b.	2012FeedComp
Grape	Grape pomace	Stemless	Inorganics	Chloride	0.01	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Wet	Inorganics	Chloride	0.2	% d.b.	2012FeedComp
Grape	Grape marc		Inorganics	Chloride	0.03	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Inorganics	Chloride	0.03	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape peels		Inorganics	Chloride	0.02	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape seeds		Inorganics	Chloride	0.02	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Inorganics	Chloride	0.03	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape meal	Extraction meal	Inorganics	Chloride	0.02	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato peel		Inorganics	Chloride	0.17	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Inorganics	Chloride	0.1	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato cake		Inorganics	Chloride	0.24	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato meal		Inorganics	Chloride	0.11	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Inorganics	Chloride	0.08	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato residues	Wet	Inorganics	Chloride	0.06	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Nuts, unspecified	Nut hulls	Almond	Inorganics	Chloride	0.03	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Inorganics	Chloride	0.4	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Inorganics	Chloride	0.4	% d.b.	2012FeedComp
Sugar beet	Sugar beet tops		Inorganics	Chloride	0.2	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Inorganics	Chloride	0.3	% d.b.	2012FeedComp
Bread	Bread by product		Inorganics	Chloride	0.76	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Inorganics	Chloride	0.15	% d.b.	2012FeedComp
Carrot	Carrot	Roots, fresh	Inorganics	Chloride	0.5	% d.b.	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Inorganics	Chloride	0.33	% d.b.	2012FeedComp

Cotton	Cottonseed hulls		Inorganics	Chloride	0.02	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Inorganics	Chloride	0.05	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Inorganics	Chloride	0.05	% d.b.	2012FeedComp
Crab	Crab waste meal		Inorganics	Chloride	1.63	% d.b.	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Inorganics	Chloride	0.7	% d.b.	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Inorganics	Chloride	0.65	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Barley	Inorganics	Chloride	0.18	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Inorganics	Chloride	0.14	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Inorganics	Chloride	0.14	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Inorganics	Chloride	0.18	% d.b.	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Inorganics	Chloride	0.28	% d.b.	2012FeedComp
Fish, unspecified	Fish meal		Inorganics	Chloride	0.76	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Inorganics	Chloride	0.04	% d.b.	2012FeedComp

Flax/linseed	Linseed meal	Mech.Ext	Inorganics	Chloride	0.04	% d.b.	2012FeedComp
Poultry	Meat meal	Swine/poultry	Inorganics	Chloride	1.27	% d.b.	2012FeedComp
Sugar beet	Sugar beet molasses		Inorganics	Chloride	1.64	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses		Inorganics	Chloride	2.3	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Inorganics	Chloride	3	% d.b.	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Inorganics	Chloride	2.73	% d.b.	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Inorganics	Chloride	0.03	% d.b.	2012FeedComp
Potato	Potato	Cull	Inorganics	Chloride	0.3	% d.b.	2012FeedComp
Potato	Potato waste	Wet	Inorganics	Chloride	0.36	% d.b.	2012FeedComp
Potato	Potato waste, dried	Dried	Inorganics	Chloride	0.39	% d.b.	2012FeedComp
Poultry	Poultry by product meal		Inorganics	Chloride	0.58	% d.b.	2012FeedComp
Poultry	Poultry manure, dried	Dried	Inorganics	Chloride	1.05	% d.b.	2012FeedComp
Rice	Rice grain		Inorganics	Chloride	0.09	% d.b.	2012FeedComp

Rice	Rice polishings		Inorganics	Chloride	0.12	% d.b.	2012FeedComp
Rice	Rice bran		Inorganics	Chloride	0.09	% d.b.	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Inorganics	Chloride	0.21	% d.b.	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Inorganics	Chloride	0.18	% d.b.	2012FeedComp
Shrimp	Shrimp waste meal		Inorganics	Chloride	1.15	% d.b.	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Inorganics	Chloride	0.15	% d.b.	2012FeedComp
Wheat	Wheat	Fresh, pasture	Inorganics	Chloride	0.67	% d.b.	2012FeedComp
Wheat	Wheat hay		Inorganics	Chloride	0.5	% d.b.	2012FeedComp
Wheat	Wheat silage		Inorganics	Chloride	0.5	% d.b.	2012FeedComp
Wheat	Wheat straw		Inorganics	Chloride	0.32	% d.b.	2012FeedComp
Wheat	Wheat straw	Ammoniated	Inorganics	Chloride	0.3	% d.b.	2012FeedComp
Wheat	Wheat grain		Inorganics	Chloride	0.09	% d.b.	2012FeedComp
Wheat	Wheat bran		Inorganics	Chloride	0.05	% d.b.	2012FeedComp
Wheat	Wheat middlings		Inorganics	Chloride	0.05	% d.b.	2012FeedComp

Wheat	Wheat mill run		Inorganics	Chloride	0.07	% d.b.	2012FeedComp
Wheat	Wheat shorts		Inorganics	Chloride	0.08	% d.b.	2012FeedComp
Cheese	Whey, dried	Dried	Inorganics	Chloride	1.2	% d.b.	2012FeedComp
Rice	Rice husk		Inorganics	Chloride	0.2	% d.b.	Combustion behaviour of rice husk in a bubbling fluidised bed
Bakery	Bakery product, dried	Dried	Inorganics	Chloride	2.25	% d.b.	2012FeedComp
Canola	Canola meal	Solv. Ext.	Inorganics	Chloride	0.07	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole	Inorganics	Chloride	0.06	% d.b.	2012FeedComp
Milk	Milk, dried	Dry, skim	Inorganics	Chloride	0.96	% d.b.	2012FeedComp
Rice	Rice husk	Variety: Lemont LG	Inorganics	Chloride	0.01	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravimetric analysis

Rice	Rice husk	Variety: ROK 14	Inorganics	Chloride	0.04	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: CP4	Inorganics	Chloride	0.12	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: Pa Potho	Inorganics	Chloride	0.13	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Sugar cane	Sugar cane trash	Tops and leaves	Inorganics	Chloride	0.22	% ash	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Chloride	6	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Chloride	2.34	% ash	ECN Phyllis 2

Poultry	Hatchery waste		Inorganics	Chloride, water soluble	3200	mg/kg	Composition of Australian meat chicken hatchery waste
Citrus, unspecified	Citrus pulp, dried		Inorganics	Chlorine	0.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Chlorine	1.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Chlorine	1.0	g/kg DM	Citrus by-products as ruminant feeds: A review
Algae	Spiruline	Dried, Arthrospira spp.	Inorganics	Chlorine	1.4	g/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Chlorine	100	mg/kg DM	ECN Phyllis 2

Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Chlorine	100	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Chlorine	27431.6	mg/kg	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Chlorine	27300	mg/kg	ECN Phyllis 2
Straw	Straw		Inorganics	Chlorine	1023.5	mg/kg	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Chlorine	19980	mg/kg	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Chlorine	26373.6	mg/kg	ECN Phyllis 2
Sugar cane	Sugar cane trash	Ground pellets	Inorganics	Chlorine	3008	mg/kg	ECN Phyllis 2
Sugar beet	Sugar beet		Inorganics	Chlorine	532	mg/kg	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Chlorine	1631.1	mg/kg	ECN Phyllis 2
Bean	Bean plant		Inorganics	Chlorine	2099.6	mg/kg	ECN Phyllis 2

Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Chlorine	3796.6	mg/kg	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Chlorine	748.9	mg/kg	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Chlorine	1176.8	mg/kg	ECN Phyllis 2
Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Chlorine	797.9	mg/kg	ECN Phyllis 2

Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Chlorine	1496.7	mg/kg	ECN Phyllis 2
Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Chlorine	3071.1	mg/kg	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Chlorine	950.8	mg/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Chlorine	500	mg/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Chlorine	800	mg/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Chlorine	100	mg/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Chlorine	31.9	mg/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Chlorine	500	mg/kg	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Chlorine	300	mg/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Chlorine	187	mg/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Chlorine	700	mg/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Chlorine	200	mg/kg	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Chlorine	125.6	mg/kg	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Chlorine	181.3	mg/kg	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Chlorine	736	mg/kg	ECN Phyllis 2
Coconut	Coconut fibre dust	Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Inorganics	Chlorine	2800	mg/kg	ECN Phyllis 2
Olive	Olive		Inorganics	Chlorine	700	mg/kg	ECN Phyllis 2
Olive	Olive		Inorganics	Chlorine	600	mg/kg	ECN Phyllis 2
Olive	Olive		Inorganics	Chlorine	500	mg/kg	ECN Phyllis 2
Olive	Olive cake		Inorganics	Chlorine	1872	mg/kg	ECN Phyllis 2

Olive	Olive husk	Ash type: 815°C	Inorganics	Chlorine	1357.8	mg/kg	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Chlorine	375.7	mg/kg	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Chlorine	893	mg/kg	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Chlorine	2597.5	mg/kg	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Chlorine	2989.4	mg/kg	ECN Phyllis 2
Olive	Olive residue		Inorganics	Chlorine	2562.4	mg/kg	ECN Phyllis 2
Olive	Olive residue	Sample lot size: 60kg. Country: Spain	Inorganics	Chlorine	1995	mg/kg	ECN Phyllis 2
Olive	Olive residue		Inorganics	Chlorine	2670.7	mg/kg	ECN Phyllis 2

Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Chlorine	1284	mg/kg	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Chlorine	1003.6	mg/kg	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Chlorine	0	mg/kg	ECN Phyllis 2

Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Chlorine	1701	mg/kg	ECN Phyllis 2
Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Chlorine	368.7	mg/kg	ECN Phyllis 2

Olive	Orujillo	Wood matter from pressed oil stone	Inorganics	Chlorine	1848	mg/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Chlorine	400	mg/kg	ECN Phyllis 2
Millet	Millet husk		Inorganics	Chlorine	273	mg/kg	ECN Phyllis 2
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Cinnamic acid derivatives	Chlorogenic Acid Total	5.6	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Cinnamic acid derivatives	Chlorogenic Acid Total	1.8	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Potato	Potato peel	Potato peel waste extracted using methanol 4 degrees C	Cinnamic acid derivatives	Chlorogenic Acid Total	24.06	mg/100g	Phenolics in Aqueous Potato Peel Extract: Extraction, Identification and Degradation
Potato	Potato peel	Potato peel waste extracted using water 25 degrees C	Cinnamic acid derivatives	Chlorogenic Acid Total	20.45	mg/100g	Phenolics in Aqueous Potato Peel Extract: Extraction, Identification and Degradation
Potato	Potato peel	Potato peel waste extracted using water 100 degrees C refluxed	Cinnamic acid derivatives	Chlorogenic Acid Total	29.91	mg/100g	Phenolics in Aqueous Potato Peel Extract: Extraction, Identification and Degradation
Potato	Potato peel	Potato peel waste liquid extract	Cinnamic acid derivatives	Chlorogenic Acid Total	0.30	mg/g	Potato peel waste: stability and antioxidant activity of a freeze-dried extract

Potato	Potato peel	Potato peel waste freeze-dried extract (amount of freeze-dried extract/5g potato peel waste was 0.28g)	Cinnamic acid derivatives	Chlorogenic Acid Total	4.83	mg/g	Potato peel waste: stability and antioxidant activity of a freeze-dried extract
Potato	Potato	Genotype: CO97226-2. Other genotypes in publication.	Cinnamic acid derivatives	Chlorogenic Acid Total	473	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes
Potato	Potato	Genotype: Russian banana. Other genotypes in publication.	Cinnamic acid derivatives	Chlorogenic Acid Total	22.9	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes
Potato	Potato	Genotype: Golden sunburst. Other genotypes in publication.	Cinnamic acid derivatives	Chlorogenic Acid Total	42.6	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes
Potato	Potato	Genotype: Gayna. Other genotypes in publication.	Cinnamic acid derivatives	Chlorogenic Acid Total	92.4	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes

Potato	Potato	Genotype: Pollunta chata. Other genotypes in publication.	Cinnamic acid derivatives	Chlorogenic Acid Total	130	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes
Potato	Potato	Genotype: Negro Y Azul. Other genotypes in publication.	Cinnamic acid derivatives	Chlorogenic Acid Total	222	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes
Potato	Potato	Genotype: Colorado rose. Other genotypes in publication.	Cinnamic acid derivatives	Chlorogenic Acid Total	40.7	mg/100g DM	HPLC profiling of phenolics in diverse potato genotypes
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Cholesterol	0.0	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Citrus, unspecified	Citrus pulp, dried		Vitamins	Choline	867	mg/kg DM	Citrus by-products as ruminant feeds: A review

Lemon	Lemon peel	Fresh	Vitamins	Choline	598.5	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Vitamins	Choline	884	mg/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Chromium	6.4	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Chromium	3.5	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Rice	Rice husk		Inorganics	Chromium	560	ppm % ash	Combustion behaviour of rice husk in a bubbling fluidised bed

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Chromium	2.5	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Chromium	1.2	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Chromium	0	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Chromium	0	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Grape	Grape marc		Inorganics	Chromium	0.91	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Inorganics	Chromium	0.32	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Inorganics	Chromium	0.58	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape seeds		Inorganics	Chromium	0.78	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Inorganics	Chromium	0.78	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Inorganics	Chromium	0.39	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Tomatoes	Tomato peel		Inorganics	Chromium	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Inorganics	Chromium	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Inorganics	Chromium	1.8	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato meal		Inorganics	Chromium	1.9	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Inorganics	Chromium	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Inorganics	Chromium	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Chromium	2.4	mg/kg DM	ECN Phyllis 2

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Chromium	10	mg/kg DM	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Chromium	6	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Chromium	12	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Chromium	17	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Chromium	9	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Chromium	5	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Chromium	11	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Chromium	1.7	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Chromium	13.7	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Chromium	35.2	mg/kg DM	ECN Phyllis 2
Apple	Apple		Inorganics	Chromium	2.4	mg/kg DM	ECN Phyllis 2
Apple	Apple	Cox	Inorganics	Chromium	0.6	mg/kg DM	ECN Phyllis 2
Brussels sprouts	Brussels sprouts		Inorganics	Chromium	1.3	mg/kg DM	ECN Phyllis 2
Brussels sprouts	Brussels sprouts		Inorganics	Chromium	0.8	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Chromium	1.1	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Chromium	1.3	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Chromium	2	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Chromium	1.6	mg/kg DM	ECN Phyllis 2
Cauliflower	Cauliflower		Inorganics	Chromium	0.6	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Chromium	0.6	mg/kg DM	ECN Phyllis 2

Cucumber	Cucumber		Inorganics	Chromium	0.4	mg/kg DM	ECN Phyllis 2
Leek	Leek		Inorganics	Chromium	1.7	mg/kg DM	ECN Phyllis 2
Leek	Leek		Inorganics	Chromium	1.8	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Chromium	2.8	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Chromium	5.2	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Chromium	3	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Chromium	0.8	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Chromium	2.6	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Chromium	2.4	mg/kg DM	ECN Phyllis 2
Onion	Onion		Inorganics	Chromium	2.3	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet		Inorganics	Chromium	1.3	mg/kg DM	ECN Phyllis 2
Spinach	Spinach		Inorganics	Chromium	4.5	mg/kg DM	ECN Phyllis 2
Spinach	Spinach		Inorganics	Chromium	3.8	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Chromium	3.7	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Chromium	6	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Chromium	81	mg/kg DM	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Chromium	1026	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Chromium	6	mg/kg DM	ECN Phyllis 2

Poultry	Hatchery waste		Inorganics	Chromium	0.64	mg/kg	Composition of Australian meat chicken hatchery waste
Sugar beet	Sugar beet		Inorganics	Chromium	58	mg/kg ash	ECN Phyllis 2
Apple	Apple pomace		Inorganics	Chromium	0.46	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Chromium	1.07	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Chromium	<0.01	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Chromium	0.12	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Chromium	1.55	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Chromium	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Chromium	0.84	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Chromium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Chromium	0.5	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Chromium	0.19	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Chromium	<0.01	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Chromium	5.84	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Chromium	0.79	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Chromium	8.78	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Chromium	2.78	ppm d.b.	NOSHAN

Onion	Onion hulls		Inorganics	Chromium	3.46	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Chromium	6.39	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Chromium	1.65	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Chromium	0.22	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Chromium	<0.01	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Chromium	2.03	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Chromium	7.02	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Chromium	0.47	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Chromium	0.14	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Chromium	0.59	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Chromium	<0.01	ppm d.b.	NOSHAN
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Chromium	3.5	ppm	Utilization of fruit and vegetable wastes, FAO
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Chromium	6.9	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Cistine	2.17	% protein	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Cistine	1.02	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Cistine	1.73	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Cistine	1.86	% protein	Chemical characterization of tomato pomace

Grain, unspecified	Oil extracted from distillers dried grains with soluble		Phytosterols	Citrostadienol	0.31	mg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Cloride	1	% ash	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Cloride	1.5	% ash	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Cloride	1.42	% ash	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Cloride	0	% ash	ECN Phyllis 2
Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Cloride	1.43	% ash	ECN Phyllis 2

Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Cloride	0.03	% ash	ECN Phyllis 2
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Undesirable components	Clostridium	3.78	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Undesirable components	Clostridium	ND	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Undesirable components	Clostridium	ND	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Apple	Apple pomace		Undesirable components	Clostridium perfringens	0	cfu/25g	NOSHAN
Orange	Orange peel	Orange	Undesirable components	Clostridium perfringens	0	cfu/25g	NOSHAN
Cheese	Whey	Milk	Undesirable components	Clostridium perfringens	0	cfu/25g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Clostridium perfringens	0	cfu/25g	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Clostridium perfringens	0	cfu/25g	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Clostridium perfringens	0	cfu/25g	NOSHAN
Grape	Grape pomace		Undesirable components	Clostridium perfringens	0	cfu/25g	NOSHAN
Mushrooms	Mushrooms		Undesirable components	Clostridium perfringens	0	cfu/25g	NOSHAN
Olive	Olive pomace		Undesirable components	Clostridium perfringens	0	cfu/25g	NOSHAN

Cabbage	Cabbage	Sour	Undesirable components	Clostridium perfringens	0	cfu/25g	NOSHAN
Tomatoes	Tomato skin		Undesirable components	Clostridium perfringens	0	cfu/25g	NOSHAN
Apple	Apple	Whole	Undesirable components	Clostridium perfringens	<250	cfu/25g	NOSHAN
Pears	Pear	Whole	Undesirable components	Clostridium perfringens	<250	cfu/25g	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Clostridium perfringens	0	cfu/25g	NOSHAN
Poultry	Hatchery waste		Inorganics	Cobalt	<0.5	mg/kg	Composition of Australian meat chicken hatchery waste
Citrus, unspecified	Citrus pulp, dried		Inorganics	Cobalt	0.155	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Cobalt	0.159	mg/kg DM	Citrus by-products as ruminant feeds: A review
Straw	Straw		Inorganics	Cobalt	15	mg/kg DM	ECN Phyllis 2

Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Cobalt	27.3	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Cobalt	2.3	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Inorganics	Cobalt	3.7	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Inorganics	Cobalt	5.9	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Inorganics	Cobalt	27.3	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Inorganics	Cobalt	6	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Inorganics	Cobalt	6	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO

Melon	Watermelon, peels	Citrullus lanatus	Inorganics	Cobalt	3.8	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Inorganics	Cobalt	3.4	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Citrus, unspecified	Citrus pulp silage		Inorganics	Cobalt	0.16	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Cobalt	0.16	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Cobalt	0.16	mg/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Cobalt	0.16	mg/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Inorganics	Cobalt	0.1	mg/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Cobalt	0.6	mg/kg DM	Citrus by-products as ruminant feeds: A review
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Cobalt	1	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Cobalt	6.8	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Cobalt	6.4	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Cobalt	3.5	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Cobalt	1.5	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Cobalt	0.8	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Cobalt	5.3	mg/kg DM	ECN Phyllis 2

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Cobalt	0.4	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Cobalt	0	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Cobalt	0	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Cobalt	0	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Apple	Apple pomace		Inorganics	Cobalt	0.02	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Cobalt	<0.01	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Cobalt	0.27	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Cobalt	<0.01	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Cobalt	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Cobalt	0.2	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Cobalt	0.02	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Cobalt	0.25	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Cobalt	0.02	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Cobalt	0.02	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Cobalt	0.19	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Cobalt	0.09	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Cobalt	0.21	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Cobalt	0.48	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Cobalt	0.1	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Cobalt	<0.01	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Cobalt	0.75	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Cobalt	<0.01	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Cobalt	<0.01	ppm d.b.	NOSHAN

Rape	Rapeseed press cake		Inorganics	Cobalt	4.38	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Cobalt	0.02	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Cobalt	0.34	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Cobalt	<0.01	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Cobalt	<0.01	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Cobalt	<0.01	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Cobalt	<0.01	ppm d.b.	NOSHAN
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Cobalt	1.5	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Cobalt	1.2	mg/kg DM	ECN Phyllis 2
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Cobalt	<0.060	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations

Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Inorganics	Cobalt	0.24	mg/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK
Food, unspecified	Food leftovers	Source segregated domestic food waste in Luton, UK	Inorganics	Cobalt	0.02	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Hackney, UK	Inorganics	Cobalt	0.09	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Source segregated domestic food waste in Ludlow, UK	Inorganics	Cobalt	<0.06	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Eastleigh, UK	Inorganics	Cobalt	0.04	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Cobalt	0.05	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Cobalt	0.08	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Cobalt	0.04	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Cobalt	0.04	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Abattoir wastes, unspecified	Abattoir raw effluent		Undesirable components	Coliform, total	19x105	cfu/100l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Undesirable components	Coliform, total	6589	cfu/100l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Undesirable components	Coliform, total	4828	cfu/100l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Undesirable components	Coliform, total	6612	cfu/100l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Undesirable components	Coliform, total	5186	cfu/100l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Undesirable components	Coliform, total	54	cfu/100l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Undesirable components	Coliform, total	38	cfu/100l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Undesirable components	Coliform, total	61	cfu/100l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Undesirable components	Coliform, total	24	cfu/100l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Undesirable components	Coliform, total	11	cfu/100l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Undesirable components	Coliform, total	0	cfu/100l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Undesirable components	Coliform, total	0	cfu/100l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Undesirable components	Coliform, total	5.32	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Undesirable components	Coliform, total	ND	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Undesirable components	Coliform, total	1.2	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Olive	Olive mill effluent		Waste compounds	Colour	19.5	absorbance at 390 nm	Bioenergy recovery from olive mill effluent in a hybrid reactor
Pork	Piggery effluent		Waste compounds	Colour	2.28	absorbance at 390 nm	Bioenergy recovery from olive mill effluent in a hybrid reactor

Apple	Apple pomace, dried	Powder	Waste compounds	Colour units: blue	0.09	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Waste compounds	Colour units: blue	0.1	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Waste compounds	Colour units: blue	0.1	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Waste compounds	Colour units: blue	0.1	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder	Waste compounds	Colour units: red	1.2	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Waste compounds	Colour units: red	1.8	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Waste compounds	Colour units: red	1.4	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Waste compounds	Colour units: red	1.3	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder	Waste compounds	Colour units: yellow	10	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Waste compounds	Colour units: yellow	10	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Waste compounds	Colour units: yellow	10	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Waste compounds	Colour units: yellow	10	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Abattoir wastes, unspecified	Abattoir raw effluent		Waste compounds	Conductivity	179.45	µS/cm	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Waste compounds	Conductivity	180.2	µS/cm	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Waste compounds	Conductivity	165	µS/cm	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Waste compounds	Conductivity	156	µS/cm	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Waste compounds	Conductivity	167	µS/cm	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Waste compounds	Conductivity	88	µS/cm	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Waste compounds	Conductivity	141	µS/cm	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Waste compounds	Conductivity	66	µS/cm	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Waste compounds	Conductivity	79	µS/cm	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Waste compounds	Conductivity	504	µS/cm	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Waste compounds	Conductivity	361	µS/cm	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Waste compounds	Conductivity	288	µS/cm	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Poultry	Hatchery waste		Waste compounds	Conductivity	4180	µS/cm	Composition of Australian meat chicken hatchery waste
Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Waste compounds	Conductivity	938	mS/m 25°C	ECN Phyllis 2

Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Waste compounds	Conductivity	7	mS/m 25°C	ECN Phyllis 2
Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Waste compounds	Conductivity	60	mS/m 25°C	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	Conductivity	1730	mS/m 25°C	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	Conductivity	1330	mS/m 25°C	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Waste compounds	Conductivity	1170	mS/m 25°C	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Waste compounds	Conductivity	1290	mS/m 25°C	ECN Phyllis 2
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Inorganics	Copper	0.01	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Tomatoes	Tomato pomace	Solanum lucopersicum	Inorganics	Copper	11	mg/1000g	Vegetable waste as animal feed paper; Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Copper	10	mg/1000g	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Inorganics	Copper	228.2	mg/1000g	Vegetable waste as animal feed paper

Potato	Potato	Solanum tuberosum	Inorganics	Copper	5.5	mg/1000g	Vegetable waste as animal feed paper
Pumpkin	Pumpkin oil meal	Cucurbita pepo	Inorganics	Copper	16	mg/1000g	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Copper	11	mg/1000g	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Inorganics	Copper	9.4	mg/1000g	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Inorganics	Copper	4	mg/1000g	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Copper	8.5	mg/1000g	Vegetable waste as animal feed paper

Apple	Apple pomace, dried	Powder	Inorganics	Copper	1.1	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Copper	1.67	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Copper	2.2	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Copper	2.38	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder	Inorganics	Copper	1.14	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Copper	1.74	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Copper	2.3	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Copper	2.47	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Copper	138.6	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Copper	11	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Copper	8.5	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO

Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Inorganics	Copper	9.5	ppm of fruit and veg waste	Wet brewers' grains for beef cattle
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Inorganics	Copper	4	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Inorganics	Copper	9.4	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Copper	10	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Inorganics	Copper	5.5	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Inorganics	Copper	138.6	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Inorganics	Copper	11	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO

Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Copper	11	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Inorganics	Copper	386	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Inorganics	Copper	54.4	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Inorganics	Copper	4.8	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Inorganics	Copper	228.2	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Inorganics	Copper	11	mg/kg DM	Waste to worth: fruit wastes and by-products as animal feed

Grape	Grape marc		Inorganics	Copper	99.84	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Inorganics	Copper	65.06	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Inorganics	Copper	141.92	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape seeds		Inorganics	Copper	72.17	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Inorganics	Copper	28.64	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Inorganics	Copper	27.37	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Tomatoes	Tomato peel		Inorganics	Copper	11.6	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Inorganics	Copper	17.3	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Inorganics	Copper	22.5	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato meal		Inorganics	Copper	27.3	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Inorganics	Copper	16.2	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Inorganics	Copper	13.6	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Citrus, unspecified	Citrus pulp silage		Inorganics	Copper	6	mg/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus meal, dried		Inorganics	Copper	7	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Copper	8	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Copper	6	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Copper	108	mg/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Copper	6	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Copper	3.0	mg/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp, dried		Inorganics	Copper	11.3	mg/kg DM	Citrus by-products as ruminant feeds: A review
Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Copper	109	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Copper	46	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Copper	19	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Copper	42	mg/kg DM	Composted slaughterhouse waste as organic fertilizer

Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Inorganics	Copper	13	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Citrus, unspecified	Citrus pulp, dried		Inorganics	Copper	6.3	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus seed meal	Mechanical extract	Inorganics	Copper	7.5	mg/kg DM	Citrus by-products as ruminant feeds: A review
Rice	Rice, aerial part	Fresh	Inorganics	Copper	9	mg/kg DM	Feedipedia
Rice	Rice straw		Inorganics	Copper	6	mg/kg DM	Feedipedia
Rice	Rice straw	Urea-treated	Inorganics	Copper	3	mg/kg DM	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Inorganics	Copper	7	mg/kg DM	Feedipedia
Wheat	Triticale grain		Inorganics	Copper	6	mg/kg DM	Feedipedia
Wheat	Wheat straw		Inorganics	Copper	4	mg/kg DM	Feedipedia
Palm	Oil palm fronds	Fresh	Inorganics	Copper	3	mg/kg DM	Feedipedia
Palm	Oil palm leaflets	Fresh	Inorganics	Copper	3	mg/kg DM	Feedipedia

Distillers grain	Distillers grain	Malt (draff), fresh	Inorganics	Copper	15	mg/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Inorganics	Copper	49	mg/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Inorganics	Copper	18	mg/kg DM	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Inorganics	Copper	95	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Inorganics	Copper	19	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Inorganics	Copper	14	mg/kg DM	Feedipedia
Rice	Rice grain	Brown	Inorganics	Copper	8	mg/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Inorganics	Copper	14	mg/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Inorganics	Copper	6	mg/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Inorganics	Copper	3	mg/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Inorganics	Copper	14	mg/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Inorganics	Copper	8	mg/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Inorganics	Copper	9	mg/kg DM	Feedipedia

Rice	Rice bran	Defatted, fibre <11%	Inorganics	Copper	14	mg/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Inorganics	Copper	13	mg/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Inorganics	Copper	7	mg/kg DM	Feedipedia
Rice	Rice hull		Inorganics	Copper	2	mg/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Inorganics	Copper	3	mg/kg DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Inorganics	Copper	9	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Inorganics	Copper	1	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Inorganics	Copper	5	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Inorganics	Copper	3	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Inorganics	Copper	3	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Inorganics	Copper	3	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Inorganics	Copper	3	mg/kg DM	Feedipedia
Wheat	Wheat bran		Inorganics	Copper	13	mg/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Inorganics	Copper	10	mg/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Inorganics	Copper	6	mg/kg DM	Feedipedia
Wheat	Wheat grain		Inorganics	Copper	6	mg/kg DM	Feedipedia

Argan	Argan leaves, dried	Dried, Argania spinosa	Inorganics	Copper	8	mg/kg DM	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Inorganics	Copper	2	mg/kg DM	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Inorganics	Copper	14	mg/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Inorganics	Copper	22	mg/kg DM	Feedipedia
Castor	Castor oil meal	Ricinus communis	Inorganics	Copper	35	mg/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Inorganics	Copper	39	mg/kg DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Inorganics	Copper	1278	mg/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Inorganics	Copper	33	mg/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Inorganics	Copper	36	mg/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Inorganics	Copper	117	mg/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Inorganics	Copper	17	mg/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Inorganics	Copper	11	mg/kg DM	Feedipedia
Flax/linseed	Flax straw		Inorganics	Copper	4	mg/kg DM	Feedipedia

Grape	Grape seeds		Inorganics	Copper	15	mg/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Inorganics	Copper	24	mg/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Inorganics	Copper	58	mg/kg DM	Feedipedia
Flax/linseed	Linseed meal		Inorganics	Copper	19	mg/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Inorganics	Copper	36	mg/kg DM	Feedipedia
Corn	Maize germ	Oil <30%	Inorganics	Copper	7	mg/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Inorganics	Copper	81	mg/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Inorganics	Copper	58	mg/kg DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Inorganics	Copper	26	mg/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Inorganics	Copper	28	mg/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Inorganics	Copper	31	mg/kg DM	Feedipedia
Palm	Palm oil mill effluent	Decanted	Inorganics	Copper	97	mg/kg DM	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Inorganics	Copper	11	mg/kg DM	Feedipedia
Palm	Palm press fibre	High oil	Inorganics	Copper	27	mg/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Inorganics	Copper	6	mg/kg DM	Feedipedia

Nuts, unspecified	Nut hulls	Peanut	Inorganics	Copper	15	mg/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Inorganics	Copper	18	mg/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Inorganics	Copper	15	mg/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Inorganics	Copper	16	mg/kg DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Inorganics	Copper	6	mg/kg DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Inorganics	Copper	24	mg/kg DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Inorganics	Copper	2	mg/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Inorganics	Copper	16	mg/kg DM	Feedipedia
Rape	Rape forage	Fresh	Inorganics	Copper	4	mg/kg DM	Feedipedia
Rape	Rape straw		Inorganics	Copper	3	mg/kg DM	Feedipedia
Rape	Rapeseed hulls		Inorganics	Copper	6	mg/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Inorganics	Copper	5	mg/kg DM	Feedipedia

Canola	Canola meal	Oil <5% as fed	Inorganics	Copper	5	mg/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Inorganics	Copper	3	mg/kg DM	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Inorganics	Copper	24	mg/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Inorganics	Copper	44	mg/kg DM	Feedipedia
Sesame	Sesame meal	Solvent extraction	Inorganics	Copper	26	mg/kg DM	Feedipedia
Soy	Soybean, aerial part	Fresh	Inorganics	Copper	70	mg/kg DM	Feedipedia
Soy	Soybean hulls		Inorganics	Copper	8	mg/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Inorganics	Copper	18	mg/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Inorganics	Copper	18	mg/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Inorganics	Copper	19	mg/kg DM	Feedipedia
Soy	Soybeans	Toasted	Inorganics	Copper	46	mg/kg DM	Feedipedia
Soy	Soybeans	Extruded	Inorganics	Copper	15	mg/kg DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Inorganics	Copper	18	mg/kg DM	Feedipedia

Sunflower	Sunflower heads	Without seeds	Inorganics	Copper	7	mg/kg DM	Feedipedia
Sunflower	Sunflower hulls		Inorganics	Copper	10	mg/kg DM	Feedipedia
Sunflower	Sunflower screenings		Inorganics	Copper	10	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Inorganics	Copper	32	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Inorganics	Copper	51	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Inorganics	Copper	30	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Inorganics	Copper	26	mg/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Inorganics	Copper	5	mg/kg DM	Feedipedia
Apple	Apple pomace	Fresh	Inorganics	Copper	2	mg/kg DM	Feedipedia
Banana	Banana stalks	Fresh	Inorganics	Copper	4	mg/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Inorganics	Copper	4	mg/kg DM	Feedipedia
Coffee	Coffee hulls		Inorganics	Copper	18	mg/kg DM	Feedipedia

Coffee	Instant coffee by product		Inorganics	Copper	38	mg/kg DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Inorganics	Copper	6	mg/kg DM	Feedipedia
Grape	Grape pomace	Dehydrated	Inorganics	Copper	70	mg/kg DM	Feedipedia
Grape	Grape pomace	Fresh	Inorganics	Copper	78	mg/kg DM	Feedipedia
Grape	Grape pomace	Silage	Inorganics	Copper	34	mg/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Inorganics	Copper	4	mg/kg DM	Feedipedia
Carrot	Carrot tops	Fresh	Inorganics	Copper	38	mg/kg DM	Feedipedia
Potato	Potato peel	Fresh	Inorganics	Copper	12	mg/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Inorganics	Copper	7	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Inorganics	Copper	5	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Inorganics	Copper	4	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Inorganics	Copper	4	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Inorganics	Copper	4	mg/kg DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Inorganics	Copper	2	mg/kg DM	Feedipedia

Potato	Sweet potato, aerial part, dried	Dry	Inorganics	Copper	11	mg/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Inorganics	Copper	7	mg/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Inorganics	Copper	7	mg/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Inorganics	Copper	12	mg/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Inorganics	Copper	6	mg/kg DM	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Inorganics	Copper	14	mg/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal		Inorganics	Copper	6	mg/kg DM	Feedipedia
Poultry	Feather meal		Inorganics	Copper	10	mg/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Inorganics	Copper	7	mg/kg DM	Feedipedia
Frog	Frog meal	Frog waste	Inorganics	Copper	17	mg/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Inorganics	Copper	14	mg/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	Cattle	Inorganics	Copper	14	mg/kg DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Inorganics	Copper	69	mg/kg DM	Feedipedia

Animal by-products, unspecified	Meat and bone meal	High fat	Inorganics	Copper	21	mg/kg DM	Feedipedia
Poultry	Offal meal	Poultry	Inorganics	Copper	41	mg/kg DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Inorganics	Copper	7	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Inorganics	Copper	23	mg/kg DM	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Inorganics	Copper	28	mg/kg DM	Feedipedia
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Copper	15.3	mg/kg DM	ECN Phyllis 2

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Copper	24	mg/kg DM	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Copper	12	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Copper	26.5	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Copper	23	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Copper	29	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Copper	28	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Copper	3	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Copper	11.4	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Copper	16	mg/kg DM	ECN Phyllis 2
Apple	Apple		Inorganics	Copper	3	mg/kg DM	ECN Phyllis 2
Apple	Apple	Cox	Inorganics	Copper	4	mg/kg DM	ECN Phyllis 2
Brussels sprouts	Brussels sprouts		Inorganics	Copper	4	mg/kg DM	ECN Phyllis 2
Brussels sprouts	Brussels sprouts		Inorganics	Copper	3	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Copper	4	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Copper	5	mg/kg DM	ECN Phyllis 2
Cauliflower	Cauliflower		Inorganics	Copper	5	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Copper	7	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Copper	8	mg/kg DM	ECN Phyllis 2
Leek	Leek		Inorganics	Copper	5	mg/kg DM	ECN Phyllis 2

Lettuce	Lettuce	Average of 41 samples	Inorganics	Copper	14	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Copper	16	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Copper	8	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Copper	9	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Copper	7	mg/kg DM	ECN Phyllis 2
Onion	Onion		Inorganics	Copper	4.1	mg/kg DM	ECN Phyllis 2
Onion	Onion		Inorganics	Copper	6	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet	Average of 19 samples	Inorganics	Copper	6.8	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet		Inorganics	Copper	6	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 38 samples	Inorganics	Copper	16.2	mg/kg DM	ECN Phyllis 2
Spinach	Spinach		Inorganics	Copper	11	mg/kg DM	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Copper	97.0	mg/kg ash	ECN Phyllis 2
Bean	Bean plant		Inorganics	Copper	625	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Copper	50	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Copper	169	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Copper	8.5	mg/kg DM	ECN Phyllis 2
Sugar beet	Sugar beet		Inorganics	Copper	124	mg/kg ash	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Copper	54	mg/kg ash	ECN Phyllis 2

Cucumber	Cucumber plant		Inorganics	Copper	727	mg/kg ash	ECN Phyllis 2
Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Copper	61	mg/kg ash	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Copper	1940	mg/kg ash	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Copper	2090	mg/kg ash	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Copper	62	mg/kg ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Copper	799	mg/kg ash	ECN Phyllis 2

Poultry	Hatchery waste		Inorganics	Copper	1.7	mg/kg	Composition of Australian meat chicken hatchery waste
Nuts, unspecified	Nut meal	Babacu	Inorganics	Copper	25.7	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Inorganics	Copper	20.7	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cassava	Cassava meal		Inorganics	Copper	2.2	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Inorganics	Copper	32.9	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Inorganics	Copper	3.39	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cotton	Cottonseed meal	solv	Inorganics	Copper	13.1	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Inorganics	Copper	6.4	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Inorganics	Copper	7.1	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Rice	Rice bran	Defatted	Inorganics	Copper	13.9	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Inorganics	Copper	21.7	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Sugar cane	Sugar cane juice		Inorganics	Copper	0.73	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Barley	Malt sprout meal		Inorganics	Copper	9.9	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Wheat	Wheat bran		Inorganics	Copper	14	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Inorganics	Copper	2.64	mg/kg	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Blood meal, dried	Vat dried. Abattoir waste	Inorganics	Copper	11	mg/kg	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Grape	Grape seeds	White, Italian	Inorganics	Copper	49	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Red, Italian	Inorganics	Copper	40	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Californian	Inorganics	Copper	16	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Not ensiled	Inorganics	Copper	34	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Ensiled for 45 days	Inorganics	Copper	36	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	White, Italian	Inorganics	Copper	102	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Red, Italian	Inorganics	Copper	124	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Californian	Inorganics	Copper	23	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Not ensiled	Inorganics	Copper	83	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Ensiled for 45 days	Inorganics	Copper	84	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Orange	Orange pulp, dried		Inorganics	Copper	11.3	g/kg DM	Citrus by-products as ruminant feeds: A review

Distillery by-products, unspecified	Distillers solids		Inorganics	Copper	20.6	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Copper	35	g/kg DM	ECN Phyllis 2
Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Copper	0.2	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Copper	0.31	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Copper	0	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Copper	0.34	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Apple	Apple pomace		Inorganics	Copper	2.96	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Copper	4.08	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Copper	0.2	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Copper	78.16	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Copper	2.62	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Copper	5.03	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Copper	12.99	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Copper	0.15	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Copper	0.67	ppm d.b.	NOSHAN

Cheese	Cheese	Soft	Inorganics	Copper	0.77	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Copper	0.55	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Copper	48.97	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Copper	14.02	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Copper	79.62	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Copper	15.07	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Copper	18.67	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Copper	5.93	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Copper	6.46	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Copper	4.89	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Copper	5.9	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Copper	2.7	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Copper	7.5	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Copper	10.8	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Copper	3.17	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Copper	6.43	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Copper	0.44	ppm d.b.	NOSHAN

Milk	Milk	Holstein Friesian cows, Spain	Inorganics	Copper	0.014	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Inorganics	Copper	0.042	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Copper	1.7	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations

Food, unspecified	Food leftovers	Source segregated domestic food waste in Luton, UK	Inorganics	Copper	1.3	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Source segregated domestic food waste in Hackney, UK	Inorganics	Copper	1.7	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Ludlow, UK	Inorganics	Copper	1.7	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Source segregated domestic food waste in Eastleigh, UK	Inorganics	Copper	1.3	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Copper	1.9	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Copper	5.8	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Copper	2.2	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Copper	1.8	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Rice	Rice husk	Ash	Inorganics	Copper oxide (CuO)	432	ppm ash	A study on the consecutive preparation of silica powders and active carbon the rice husk ash

Rice	Rice husk	Silica powder	Inorganics	Copper oxide (CuO)	0	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Apple	Apple pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	41.48	NMR	NOSHAN
Orange	Orange peel	Orange	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	120.78	NMR	NOSHAN
Hop	Hops		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	18.47	NMR	NOSHAN
Apple	Apple cake		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	73.75	NMR	NOSHAN

Cabbage	Cabbage		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	93.38	NMR	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	37.63	NMR	NOSHAN
Grape	Grape pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	7.58	NMR	NOSHAN
Olive	Olive pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	10.91	NMR	NOSHAN
Onion	Onion hulls		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	97.88	NMR	NOSHAN
Rape	Rapeseed press cake		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	23.11	NMR	NOSHAN

Cabbage	Cabbage	Sour	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	44	NMR	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	32.28	NMR	NOSHAN
Tomatoes	Tomato skin		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	4.38	NMR	NOSHAN
Apple	Apple	Whole	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	10.3	NMR	NOSHAN
Pears	Pear	Whole	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	9.37	NMR	NOSHAN
Apple	Apple pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	786.35	UV	NOSHAN

Orange	Orange peel	Orange	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	589.85	UV	NOSHAN
Hop	Hops		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	974.15	UV	NOSHAN
Apple	Apple cake		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	795.39	UV	NOSHAN
Cabbage	Cabbage		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	440.77	UV	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	389.71	UV	NOSHAN
Grape	Grape pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	316.9	UV	NOSHAN

Olive	Olive pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	292.71	UV	NOSHAN
Onion	Onion hulls		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	930.82	UV	NOSHAN
Rape	Rapeseed press cake		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	101.89	UV	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	754.21	UV	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	689.04	UV	NOSHAN
Tomatoes	Tomato skin		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	330.8	UV	NOSHAN

Apple	Apple	Whole	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	646	UV	NOSHAN
Pears	Pear	Whole	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	724.37	UV	NOSHAN
Apple	Apple pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	180.16	NMR	NOSHAN
Orange	Orange peel	Orange	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	411	NMR	NOSHAN
Hop	Hops		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	95	NMR	NOSHAN
Apple	Apple cake		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	148.79	NMR	NOSHAN

Cabbage	Cabbage		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	442	NMR	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	202	NMR	NOSHAN
Grape	Grape pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	61	NMR	NOSHAN
Olive	Olive pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	360	NMR	NOSHAN
Onion	Onion hulls		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	155	NMR	NOSHAN
Rape	Rapeseed press cake		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	148	NMR	NOSHAN

Cabbage	Cabbage	Sour	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	342	NMR	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	346	NMR	NOSHAN
Tomatoes	Tomato skin		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	171	NMR	NOSHAN
Apple	Apple	Whole	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	173	NMR	NOSHAN
Pears	Pear	Whole	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	194	NMR	NOSHAN
Apple	Apple pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	11.16	NMR	NOSHAN

Orange	Orange peel	Orange	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	1.57	NMR	NOSHAN
Hop	Hops		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	6.1	NMR	NOSHAN
Apple	Apple cake		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	0.68	NMR	NOSHAN
Cabbage	Cabbage		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	1.66	NMR	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	0.37	NMR	NOSHAN
Grape	Grape pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	3.13	NMR	NOSHAN

Olive	Olive pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	5.08	NMR	NOSHAN
Onion	Onion hulls		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	8.13	NMR	NOSHAN
Rape	Rapeseed press cake		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	8.09	NMR	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	5.87	NMR	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	17.02	NMR	NOSHAN
Tomatoes	Tomato skin		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	1.03	NMR	NOSHAN

Apple	Apple	Whole	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	1.3	NMR	NOSHAN
Pears	Pear	Whole	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	1.9	NMR	NOSHAN
Apple	Apple pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	1.95	NMR	NOSHAN
Orange	Orange peel	Orange	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	0.42	NMR	NOSHAN
Hop	Hops		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	3.88	NMR	NOSHAN
Apple	Apple cake		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	0.65	NMR	NOSHAN

Cabbage	Cabbage		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	2.21	NMR	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	1.26	NMR	NOSHAN
Grape	Grape pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	1.29	NMR	NOSHAN
Olive	Olive pomace		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	4.3	NMR	NOSHAN
Onion	Onion hulls		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	1.44	NMR	NOSHAN
Rape	Rapeseed press cake		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	4.86	NMR	NOSHAN

Cabbage	Cabbage	Sour	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	3.16	NMR	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	15.15	NMR	NOSHAN
Tomatoes	Tomato skin		Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	2.46	NMR	NOSHAN
Apple	Apple	Whole	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	1	NMR	NOSHAN
Pears	Pear	Whole	Proximates	Covalent-bound pectin fraction (Na2C03 fraction)	3.6	NMR	NOSHAN

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Simple phenols	Cresol, m	1.88	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Simple phenols	Cresol, m	1.92	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Simple phenols	Cresol, m	1.02	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Simple phenols	Cresol, m	2.56	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Simple phenols	Cresol, o	1.45	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Simple phenols	Cresol, o	0.98	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Simple phenols	Cresol, o	0.23	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Simple phenols	Cresol, o	0.97	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Simple phenols	Cresol, p	1.51	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Simple phenols	Cresol, p	0.88	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Simple phenols	Cresol, p	0.56	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Simple phenols	Cresol, p	1.38	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Rape	Rapeseed press cake		Proximates	Cruciferin	20	%	NOSHAN
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Vitamin fractions	Cryptoxanthin, beta	3.31	µg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Sugar cane	Sugar cane bagasse		Waste compounds	Crystallinity	48	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sponge gourd	Sponge gourd fibers		Waste compounds	Crystallinity	50	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Phytosterols	Cycloartenol	0.71	mg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains

Apple	Apple pomace		Proximates	Cysteine	1.15	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Cysteine	2.06	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Cysteine	4.39	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Cysteine	4.49	mg/g dry matter	NOSHAN
Apple	Apple cake		Proximates	Cysteine	0.44	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Cysteine	5.92	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Cysteine	11.28	mg/g dry matter	NOSHAN
Cabbage	Cabbage		Proximates	Cysteine	0.95	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Cysteine	2.79	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Cysteine	2.07	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Cysteine	2.78	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Cysteine	1.5	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Cysteine	2.1	mg/g dry matter	NOSHAN

Barley	Malted barley germs		Proximates	Cysteine	4.53	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Cysteine	6.02	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Cysteine	61.19	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Cysteine	1.18	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Cysteine	2.42	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Cysteine	1.51	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Cysteine	1.52	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Cysteine	1.37	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Cysteine	7.3	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Cysteine	1.2	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Cysteine	1.91	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Cysteine	0.45	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Cysteine	0.32	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Cysteine	0.45	mg/g dry matter	NOSHAN

Yoghurt	Yoghurt		Proximates	Cysteine	2.2	mg/g dry matter	NOSHAN
Canola	Canola meal	Average of analysed values	Proximates	Cysteine	8.4	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Rape	Rapeseed hulls	Purified	Proximates	Cysteine	4	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Cabbage	Cabbage meal		Proximates	Cysteine	2.9	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology
Citrus, unspecified	Citrus meal, dried		Proximates	Cysteine	1.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Cysteine	0.95	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Cysteine	1.2	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp, dried		Proximates	Cysteine	0.6	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Cysteine	9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Cysteine	8.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Cysteine	8.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Cysteine	10	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Cysteine	9.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Cysteine	9.7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Cysteine	8.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Cysteine	9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Cysteine	8.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Cysteine	9.7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Cysteine	5.14	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Cysteine	7.31	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Nuts, unspecified	Nut meal	Babacu	Proximates	Cysteine	5.8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Proximates	Cysteine	1.3	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cassava	Cassava meal		Proximates	Cysteine	0.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Proximates	Cysteine	3.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Proximates	Cysteine	11.1	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cotton	Cottonseed meal	solv	Proximates	Cysteine	7.3	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Proximates	Cysteine	35	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Proximates	Cysteine	7.5	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Rice	Rice bran	Defatted	Proximates	Cysteine	3.1	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Proximates	Cysteine	6.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Wheat	Wheat bran		Proximates	Cysteine	4	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Cysteine	10.4	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Cysteine	13.6	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Cysteine	0.32	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Cysteine	0.4	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Cysteine	0.37	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Cysteine	23.20	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Milk	Milk	Granadina goats, Spain	Proximates	Cysteine	30.62	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Cysteine	2	g/16g N	Feedipedia
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Cystine	0.76	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Rice	Rice, aerial part	Fresh	Proximates	Cystine	0.7	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Cystine	2.4	% protein	Feedipedia

Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Cystine	1.8	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Cystine	1.6	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Cystine	1.8	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Cystine	1.3	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Cystine	1.6	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Cystine	1.3	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Cystine	2	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Cystine	2	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Cystine	1.9	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Cystine	2	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Cystine	1.1	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Cystine	1.2	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Cystine	1.7	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Cystine	1.7	% protein	Feedipedia

Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Cystine	1.7	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Cystine	1.2	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Cystine	2.1	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Cystine	3.4	% protein	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Cystine	1.6	% protein	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Cystine	1.2	% protein	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Cystine	2.8	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Cystine	1.9	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Cystine	1.6	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Cystine	1.8	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Cystine	1.9	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Cystine	1.7	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Cystine	2.1	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Cystine	1.9	% protein	Feedipedia

Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Cystine	2	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Cystine	1.3	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Cystine	2.2	% protein	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Cystine	2.4	% protein	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Cystine	1.1	% protein	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Cystine	1.3	% protein	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Cystine	1.5	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Cystine	1.2	% protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Cystine	1.2	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Cystine	1.7	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Cystine	1.6	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Cystine	1.9	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Cystine	1.6	% protein	Feedipedia
Grape	Grape seeds		Proximates	Cystine	1.1	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Cystine	1.8	% protein	Feedipedia

Flax/linseed	Linseed meal	Solvent extraction	Proximates	Cystine	2	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Cystine	1.9	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Cystine	1.4	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Cystine	1.5	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Cystine	1.8	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Cystine	2.3	% protein	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Cystine	2.4	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Cystine	1.2	% protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Cystine	1.4	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Cystine	3.4	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Cystine	0.9	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Cystine	1	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Cystine	1.3	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Cystine	1	% protein	Feedipedia

Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Cystine	2.3	% protein	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Cystine	1.1	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Cystine	0.2	% protein	Feedipedia
Rape	Rapeseed hulls		Proximates	Cystine	2.8	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Cystine	2.3	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Cystine	2.6	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Cystine	2.4	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Cystine	2.5	% protein	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Cystine	1.8	% protein	Feedipedia

Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Cystine	1.7	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Cystine	2.2	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Cystine	1.9	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Cystine	1.2	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Cystine	1.8	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Cystine	1.5	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Cystine	1.6	% protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Cystine	1.6	% protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Cystine	1.5	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Cystine	2.2	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Cystine	1.5	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Cystine	1.6	% protein	Feedipedia
Sunflower	Sunflower screenings		Proximates	Cystine	2.2	% protein	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Cystine	1.7	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Cystine	1.7	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Cystine	1.7	% protein	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Cystine	1.5	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Cystine	1.8	% protein	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Proximates	Cystine	1.4	% protein	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Cystine	1.4	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Cystine	1.6	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Cystine	1	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Cystine	0.3	% protein	Feedipedia

Coffee	Instant coffee by product		Proximates	Cystine	0.3	% protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Cystine	1.6	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Cystine	1.9	% protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Cystine	1.3	% protein	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Cystine	0.3	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Cystine	1.5	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Cystine	0.6	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Cystine	1.1	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Cystine	0.9	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Cystine	1.4	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Cystine	0.9	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Cystine	1.3	% protein	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Cystine	0.7	% protein	Feedipedia

Sugar beet	Sugar beet leaves	Fresh	Proximates	Cystine	0.3	% protein	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Cystine	2.7	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Cystine	1.5	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Cystine	1.4	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Cystine	1.2	% protein	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Cystine	0.2	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Cystine	1.7	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Cystine	0.2	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Cystine	0.2	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Cystine	2.7	% protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Cystine	1.1	% protein	Feedipedia
Animal by-products, unspecified	Blood meal	Chicken	Proximates	Cystine	1.1	% protein	Feedipedia
Poultry	Feather meal		Proximates	Cystine	4.3	% protein	Feedipedia

Fish, unspecified	Fish meal	High protein	Proximates	Cystine	0.8	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Cystine	0.8	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Cystine	1.2	% protein	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Cystine	1	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Cystine	0.8	% protein	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Cystine	1.9	% protein	Feedipedia
Poultry	Hatchery by product		Proximates	Cystine	1.1	% protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Cystine	1	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Cystine	1.2	% protein	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Cystine	0.8	% protein	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Cystine	2.7	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Cystine	1.1	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Cystine	1.2	% protein	Feedipedia

Poultry	Offal meal	Poultry	Proximates	Cystine	2.5	% protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Cystine	0.6	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Cystine	0.9	% protein	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Cystine	1.2	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Cystine	1.1	% protein	Feedipedia
Whale	Whale meal		Proximates	Cystine	0.9	% protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Cystine	1.9	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Cystine	1.5	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Cystine	0.9	% protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Cystine	0.9	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Cystine	2.3	% protein	Feedipedia

Rye	Seed residue		Proximates	Cystine	1.9	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Cystine	1.62	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Cystine	2.1	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Fruit and vegetables, unspecified	Pectin residue		Proximates	Cystine	1.31	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Cystine	1.9	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Cystine	1.36	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Wheat	Wheat		Proximates	Cystine	2.13	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Cystine	2.24	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Distillery by-products, unspecified	Distillers solids		Proximates	Cystine	35	g/160g nitrogen	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs

Distillery by-products, unspecified	Distillers solids		Proximates	Cystine	35	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Cystine, 1/2	0.81	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Cystine, 1/2	0.69	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Cystine, 1/2	1.54	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Cystine, 1/2	0.97	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Cystine, 1/2	1.03	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Cystine, 1/2	0.63	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Cystine, 1/2	1.4	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Cystine, 1/2	0.86	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Cystine, 1/2	1.34	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Potato	Potato peel		Waste compounds	DPPH activity	150	mg/kg	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones
Grape	Grape seeds and peels		Waste compounds	DPPH activity	300	µmol/g dw	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones
Juices, unspecified	Juice pomace		Waste compounds	DPPH activity	64.3	%	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones

Hop	Hop leaves	Extract	Waste compounds	DPPH activity	0.07	mg/ml	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones
Hop	Hop leaves	Extract	Waste compounds	DPPH activity	3	mg/g DW	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Waste compounds	DPPH radical scavenging activity	18.5	mg AAE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Morio Muscat	Waste compounds	DPPH radical scavenging activity	15.7	mg AAE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Waste compounds	DPPH radical scavenging activity	28.7	mg AAE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Waste compounds	DPPH radical scavenging activity	30	mg AAE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Pinot Noir	Waste compounds	DPPH radical scavenging activity	26.7	mg AAE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Apple	Apple peel		Waste compounds	DPPH radical scavenging activity	3.5	AAE g/kg	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones
Millet	Millet husk		Waste compounds	Deformation temperature	1340	°C	ECN Phyllis 2
Lemon	Sweet lemon pulp	Citrus limetta	Waste compounds	Degradability, effective	87.6	%	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Waste compounds	Degradability, effective	81.9	%	Utilization of fruit and vegetable wastes, FAO

Olive	Olive cake, dried	Dried, two-stage dried	Waste compounds	Degradability, effective	411	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Waste compounds	Degradability, effective	536	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive cake, dried	Dried, two-stage dried	Waste compounds	Degradability, effective	435	g/kg CP	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Olive	Olive leaves		Waste compounds	Degradability, effective	459	g/kg CP	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Lemon	Sweet lemon pulp	Citrus limetta	Waste compounds	Degradability, true	83.2	%	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Waste compounds	Degradability, true	75.9	%	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta	Waste compounds	Degradation rate	0.12	%/h	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Waste compounds	Degradation rate	0.08	%/h	Utilization of fruit and vegetable wastes, FAO

Olive	Olive cake, dried	Dried, two-stage dried	Waste compounds	Degradation rate of fraction	0.07	h-1 DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Waste compounds	Degradation rate of fraction	0.038	h-1 DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive cake, dried	Dried, two-stage dried	Waste compounds	Degradation rate of fraction	0.075	h-1 CP	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Olive	Olive leaves		Waste compounds	Degradation rate of fraction	0.045	h-1 CP	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Apple	Apple pomace		Proximates	Degree of acetylation (mol% of uronic acids)	2.18	NMR	NOSHAN
Orange	Orange peel	Orange	Proximates	Degree of acetylation (mol% of uronic acids)	0.97	NMR	NOSHAN
Hop	Hops		Proximates	Degree of acetylation (mol% of uronic acids)	4.94	NMR	NOSHAN
Apple	Apple cake		Proximates	Degree of acetylation (mol% of uronic acids)	1.41	NMR	NOSHAN
Cabbage	Cabbage		Proximates	Degree of acetylation (mol% of uronic acids)	2.56	NMR	NOSHAN

Cucumber	Cucumber	Sour	Proximates	Degree of acetylation (mol% of uronic acids)	2.2	NMR	NOSHAN
Grape	Grape pomace		Proximates	Degree of acetylation (mol% of uronic acids)	0.78	NMR	NOSHAN
Olive	Olive pomace		Proximates	Degree of acetylation (mol% of uronic acids)	6.25	NMR	NOSHAN
Onion	Onion hulls		Proximates	Degree of acetylation (mol% of uronic acids)	1.55	NMR	NOSHAN
Rape	Rapeseed press cake		Proximates	Degree of acetylation (mol% of uronic acids)	8.84	NMR	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Degree of acetylation (mol% of uronic acids)	3.81	NMR	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Degree of acetylation (mol% of uronic acids)	16.49	NMR	NOSHAN

Tomatoes	Tomato skin		Proximates	Degree of acetylation (mol% of uronic acids)	2.75	NMR	NOSHAN
Apple	Apple	Whole	Proximates	Degree of acetylation (mol% of uronic acids)	4.2	NMR	NOSHAN
Pears	Pear	Whole	Proximates	Degree of acetylation (mol% of uronic acids)	4.1	NMR	NOSHAN
Apple	Apple pomace		Proximates	Degree of methylation	17.49	mol% of uronic acid	NOSHAN
Orange	Orange peel	Orange	Proximates	Degree of methylation	13.38	mol% of uronic acid	NOSHAN
Hop	Hops		Proximates	Degree of methylation	8.52	mol% of uronic acid	NOSHAN
Apple	Apple cake		Proximates	Degree of methylation	6.72	mol% of uronic acid	NOSHAN
Cabbage	Cabbage		Proximates	Degree of methylation	5.84	mol% of uronic acid	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Degree of methylation	10.82	mol% of uronic acid	NOSHAN
Grape	Grape pomace		Proximates	Degree of methylation	4.36	mol% of uronic acid	NOSHAN
Olive	Olive pomace		Proximates	Degree of methylation	8.02	mol% of uronic acid	NOSHAN

Onion	Onion hulls		Proximates	Degree of methylation	10.24	mol% of uronic acid	NOSHAN
Rape	Rapeseed press cake		Proximates	Degree of methylation	16.8	mol% of uronic acid	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Degree of methylation	8.02	mol% of uronic acid	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Degree of methylation	22.64	mol% of uronic acid	NOSHAN
Tomatoes	Tomato skin		Proximates	Degree of methylation	16.71	mol% of uronic acid	NOSHAN
Apple	Apple	Whole	Proximates	Degree of methylation	23.95	mol% of uronic acid	NOSHAN
Pears	Pear	Whole	Proximates	Degree of methylation	13.31	mol% of uronic acid	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Dehydrogenase, alcohol	3	%	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Dehydrogenase, glyceraldehyde-3-phosphate	2	%	NOSHAN

Grape	Grape pomace, dried	Air dried	Anthocyanins	Delphinidin-3-glucoside	936	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Anthocyanins	Delphinidin-3-glucoside	775	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Anthocyanins	Delphinidin-3-glucoside	787	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Olive	Olive tree pruning	Liquid fraction derived from organosolv pretreatment	Waste compounds	Density	0.8703	g/ml	Biorefining of olive tree (Olea europea) pruning
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Waste compounds	Density at 28°C	0.993	kg/m²	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Waste compounds	Density at 28°C	0.987	kg/m²	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Grape	Grape stalks		Waste compounds	Dichloromethane	1	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Grape	Grape pomace	Deseeded, without stalk. Area of production: Alsace. Red and white grapes (Vitis vinifera)	Waste compounds	Dichloromethane (CH2Cl2)	9.72	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Aquitaine. Red and white grapes (Vitis vinifera)	Waste compounds	Dichloromethane (CH2Cl2)	8.89	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Beaujolais. Red and white grapes (Vitis vinifera)	Waste compounds	Dichloromethane (CH2Cl2)	5.1	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Bourgogne. Red and white grapes (Vitis vinifera)	Waste compounds	Dichloromethane (CH2Cl2)	3.68	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Champagne. Red and white grapes (Vitis vinifera)	Waste compounds	Dichloromethane (CH2Cl2)	12.19	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Languedoc. Red and white grapes (Vitis vinifera)	Waste compounds	Dichloromethane (CH2Cl2)	7.45	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Val de Loire. Red and white grapes (Vitis vinifera)	Waste compounds	Dichloromethane (CH2Cl2)	7.32	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Provence. Red and white grapes (Vitis vinifera)	Waste compounds	Dichloromethane (CH_2Cl_2)	13.79	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Waste compounds	Diesel	100	HSD	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Waste compounds	Diesel	100	HSD	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Grape	Grape pomace	Deseeded, without stalk. Area of production: Alsace. Red and white grapes (Vitis vinifera)	Waste compounds	Diethyl ether (Et2O)	6.72	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Aquitaine. Red and white grapes (Vitis vinifera)	Waste compounds	Diethyl ether (Et2O)	6.85	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Beaujolais. Red and white grapes (Vitis vinifera)	Waste compounds	Diethyl ether (Et2O)	4.26	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Bourgogne. Red and white grapes (Vitis vinifera)	Waste compounds	Diethyl ether (Et2O)	3	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Champagne. Red and white grapes (Vitis vinifera)	Waste compounds	Diethyl ether (Et2O)	4.94	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Languedoc. Red and white grapes (Vitis vinifera)	Waste compounds	Diethyl ether (Et2O)	8	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Val de Loire. Red and white grapes (Vitis vinifera)	Waste compounds	Diethyl ether (Et2O)	3.79	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Provence. Red and white grapes (Vitis vinifera)	Waste compounds	Diethyl ether (Et2O)	4.78	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Tomatoes	Tomato skin		Undesirable components	Difenoconazol	0.126	mg/kg	NOSHAN
Apple	Apple waste		Proximates	Dry Matter	12	% wet weight	Cropgen database
Apple	Apple pomace		Proximates	Dry Matter	13.9	% wet weight	Apple pomace as a supplement to pasture for dairy cows in late lactation
Apple	Apple pomace, dried	Dried	Proximates	Dry Matter	89	% wet weight	2012FeedComp
Apple	Apple pomace	Malus domestica	Proximates	Dry Matter	35.9	% wet weight	Fruit waste as feed paper

Citrus, unspecified	Citrus pulp, dried		Proximates	Dry Matter	90	% wet weight	2012FeedComp
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Dry Matter	9.5	% wet weight	Utilization of fruit and vegetable wastes, FAO
Cranberry	Cranberry pulp meal		Proximates	Dry Matter	88	% wet weight	2012FeedComp
Orange	Orange pulp, dried		Proximates	Dry Matter	89	% wet weight	2012FeedComp
Grapefruit	Grapefruit pulp silage	Grapefruit. Source: Israel	Proximates	Dry Matter	19.2	% wet weight	Citrus by-products for animal feed
Orange	Orange pulp silage	Source: Israel	Proximates	Dry Matter	19.6	%	Citrus by-products for animal feed
Citrus, unspecified	Citrus pulp, dried	Source: Trinidad	Proximates	Dry Matter	91.8	% wet weight	Citrus by-products for animal feed
Citrus, unspecified	Citrus molasses	Source: United States	Proximates	Dry Matter	71	%	Citrus by-products for animal feed
Citrus, unspecified	Citrus seed meal	Source: United States	Proximates	Dry Matter	85	%	Citrus by-products for animal feed
Citrus, unspecified	Citrus molasses		Proximates	Dry Matter	65	%	2012FeedComp
Tomatoes	Tomato pomace, dried	Dried	Proximates	Dry Matter	92	% wet weight	2012FeedComp

Tomatoes	Tomato pomace	Solanum lucopersicum	Proximates	Dry Matter	25.3	% wet weight	Vegetable waste as animal feed paper
Rice	Rice hull		Proximates	Dry Matter	92	% wet weight	2012FeedComp
Rice	Rice mill byproduct		Proximates	Dry Matter	91	% wet weight	2012FeedComp
Poultry	Feather meal	Hydrolyzed	Proximates	Dry Matter	93	% wet weight	2012FeedComp
Sugar beet	Sugar beet pulp	Beta vulgaris	Proximates	Dry Matter	10-15	% wet weight	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Dry Matter	10	% wet weight	Utilization of fruit and vegetable wastes, FAO
Sunflower	Sunflower oil cake	By-product. Helianthus annuus (seed)	Proximates	Dry Matter	92	% wet weight	Cropgen database
Barley	Barley grain screenings		Proximates	Dry Matter	89	% wet weight	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Dry Matter	23	% wet weight	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Dry Matter	26	% wet weight	Wet brewers' grains for beef cattle

Brewer's yeast/grains, unspecified	Brewer's yeast		Proximates	Dry Matter	92	% wet weight	2012FeedComp
Grape	Grape pomace	Stemless	Proximates	Dry Matter	91	% wet weight	2012FeedComp
Grape	Grape pomace/marc	Namily vitaceae	Proximates	Dry Matter	35	% wet weight	Fruit waste as feed paper
Distillers grain	Distillers grain	Wet	Proximates	Dry Matter	25	% wet weight	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Proximates	Dry Matter	35	% wet weight	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Proximates	Dry Matter	92	% wet weight	2012FeedComp
Grape	Grape pomace, dried	Air dried	Proximates	Dry Matter	97.7	% wet weight	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Proximates	Dry Matter	97.7	% wet weight	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Proximates	Dry Matter	40.5	% wet weight	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Sunflower	Sunflower oil cake		Proximates	Dry Matter	92	% wet weight	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake
Nuts, unspecified	Nut hulls	Almond	Proximates	Dry Matter	89	% wet weight	2012FeedComp
Apple	Apple		Proximates	Dry Matter	17	%	2012FeedComp
Apple	Apple pomace	Wet	Proximates	Dry Matter	20	% wet weight	2012FeedComp
Banana	Banana		Proximates	Dry Matter	24	%	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Proximates	Dry Matter	17	% wet weight	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Proximates	Dry Matter	91	% wet weight	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Proximates	Dry Matter	24	% wet weight	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Proximates	Dry Matter	92	% wet weight	2012FeedComp
Sugar beet	Sugar beet root		Proximates	Dry Matter	23	% wet weight	2012FeedComp

Sugar beet	Sugar beet tops		Proximates	Dry Matter	19	% wet weight	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Proximates	Dry Matter	25	% wet weight	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Proximates	Dry Matter	91	% wet weight	2012FeedComp
Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Proximates	Dry Matter	95	% wet weight	2012FeedComp
Bread	Bread by product		Proximates	Dry Matter	68	% wet weight	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	Dry Matter	92	% wet weight	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Proximates	Dry Matter	94	% wet weight	2012FeedComp
Butter	Buttermilk, dried		Proximates	Dry Matter	92	% wet weight	2012FeedComp
Bread	Calcium carbonate		Proximates	Dry Matter	99	% wet weight	2012FeedComp
Carrot	Carrot pulp		Proximates	Dry Matter	14	% wet weight	2012FeedComp
Carrot	Carrot	Roots, fresh	Proximates	Dry Matter	12	% wet weight	2012FeedComp
Carrot	Carrot tops		Proximates	Dry Matter	16	% wet weight	2012FeedComp

Beef	Cattle manure, dried	Dried	Proximates	Dry Matter	92	% wet weight	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Proximates	Dry Matter	92	% wet weight	2012FeedComp
Coffee	Coffee grounds		Proximates	Dry Matter	88	% wet weight	2012FeedComp
Cotton	Cottonseed hulls		Proximates	Dry Matter	90	% wet weight	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Proximates	Dry Matter	90	% wet weight	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Proximates	Dry Matter	92	% wet weight	2012FeedComp
Crab	Crab waste meal		Proximates	Dry Matter	91	% wet weight	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Proximates	Dry Matter	91	% wet weight	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Proximates	Dry Matter	92	% wet weight	2012FeedComp
Crawfish	Crawfish waste meal		Proximates	Dry Matter	94	% wet weight	2012FeedComp
Distillers grain	Distillers grain	Barley	Proximates	Dry Matter	90	% wet weight	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Proximates	Dry Matter	91	% wet weight	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Proximates	Dry Matter	36	% wet weight	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Proximates	Dry Matter	89	% wet weight	2012FeedComp

Distillery by-products, unspecified	Distillers solubles, dried	Dried	Proximates	Dry Matter	93	% wet weight	2012FeedComp
Distillers grain	Distillers corn stillage		Proximates	Dry Matter	7	%	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Proximates	Dry Matter	91	% wet weight	2012FeedComp
Fish, unspecified	Fish meal		Proximates	Dry Matter	90	% wet weight	2012FeedComp
Flax/linseed	Flax seed hulls		Proximates	Dry Matter	91	% wet weight	2012FeedComp
Hop	Hop leaves		Proximates	Dry Matter	37	% wet weight	2012FeedComp
Hop	Hop vine silage		Proximates	Dry Matter	30	% wet weight	2012FeedComp
Hop	Hops	Spent	Proximates	Dry Matter	89	% wet weight	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Proximates	Dry Matter	91	% wet weight	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Proximates	Dry Matter	91	% wet weight	2012FeedComp
Poultry	Meat meal	Swine/poultry	Proximates	Dry Matter	93	% wet weight	2012FeedComp
Sugar beet	Sugar beet molasses		Proximates	Dry Matter	77	% wet weight	2012FeedComp
Sugar cane	Sugar cane molasses		Proximates	Dry Matter	77	% wet weight	2012FeedComp

Sugar cane	Sugar cane molasses, dried	Dried	Proximates	Dry Matter	94	% wet weight	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Proximates	Dry Matter	43	% wet weight	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Proximates	Dry Matter	91	% wet weight	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Proximates	Dry Matter	91	% wet weight	2012FeedComp
Nuts, unspecified	Nut skins	Peanut	Proximates	Dry Matter	92	% wet weight	2012FeedComp
Pineapple	Pineapple greenchop		Proximates	Dry Matter	17	% wet weight	2012FeedComp
Pineapple	Pineapple bran		Proximates	Dry Matter	89	% wet weight	2012FeedComp
Pineapple	Pineapple presscake		Proximates	Dry Matter	21	% wet weight	2012FeedComp
Potato	Potato vine silage		Proximates	Dry Matter	15	% wet weight	2012FeedComp
Potato	Potato	Cull	Proximates	Dry Matter	21	% wet weight	2012FeedComp
Potato	Potato waste	Wet	Proximates	Dry Matter	14	% wet weight	2012FeedComp
Potato	Potato waste, dried	Dried	Proximates	Dry Matter	89	% wet weight	2012FeedComp
Potato	Potato waste	Wet with lime	Proximates	Dry Matter	17	% wet weight	2012FeedComp

Potato	Potato waste	Filter cake	Proximates	Dry Matter	14	% wet weight	2012FeedComp
Poultry	Poultry by product meal		Proximates	Dry Matter	93	% wet weight	2012FeedComp
Poultry	Poultry manure, dried	Dried	Proximates	Dry Matter	89	% wet weight	2012FeedComp
Rice	Rice straw		Proximates	Dry Matter	91	% wet weight	2012FeedComp
Rice	Rice straw	Ammoniated	Proximates	Dry Matter	87	% wet weight	2012FeedComp
Rice	Rice grain		Proximates	Dry Matter	89	% wet weight	2012FeedComp
Rice	Rice polishings		Proximates	Dry Matter	90	% wet weight	2012FeedComp
Rice	Rice bran		Proximates	Dry Matter	91	% wet weight	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Proximates	Dry Matter	91	% wet weight	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Proximates	Dry Matter	91	% wet weight	2012FeedComp
Safflower	Safflower hulls		Proximates	Dry Matter	91	% wet weight	2012FeedComp
Shrimp	Shrimp waste meal		Proximates	Dry Matter	90	% wet weight	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Proximates	Dry Matter	92	% wet weight	2012FeedComp
Sunflower	Sunflower meal	With hulls	Proximates	Dry Matter	91	% wet weight	2012FeedComp

Sunflower	Sunflower seed hulls		Proximates	Dry Matter	90	% wet weight	2012FeedComp
Sugar cane	Sugar cane bagasse		Proximates	Dry Matter	91	% wet weight	2012FeedComp
Tomatoes	Tomato		Proximates	Dry Matter	6	% wet weight	2012FeedComp
Wheat	Wheat	Fresh, pasture	Proximates	Dry Matter	21	% wet weight	2012FeedComp
Wheat	Wheat hay		Proximates	Dry Matter	90	% wet weight	2012FeedComp
Wheat	Wheat silage		Proximates	Dry Matter	33	% wet weight	2012FeedComp
Wheat	Wheat straw		Proximates	Dry Matter	91	% wet weight	2012FeedComp
Wheat	Wheat straw	Ammoniated	Proximates	Dry Matter	85	% wet weight	2012FeedComp
Wheat	Wheat grain		Proximates	Dry Matter	89	% wet weight	2012FeedComp
Wheat	Wheat grain	Hard	Proximates	Dry Matter	89	% wet weight	2012FeedComp
Wheat	Wheat grain	Soft	Proximates	Dry Matter	89	% wet weight	2012FeedComp
Wheat	Wheat grain	Steam flaked	Proximates	Dry Matter	85	% wet weight	2012FeedComp
Wheat	Wheat grain	Sprouted	Proximates	Dry Matter	86	% wet weight	2012FeedComp
Wheat	Wheat bran		Proximates	Dry Matter	89	% wet weight	2012FeedComp

Wheat	Wheat middlings		Proximates	Dry Matter	89	% wet weight	2012FeedComp
Wheat	Wheat mill run		Proximates	Dry Matter	90	% wet weight	2012FeedComp
Wheat	Wheat shorts		Proximates	Dry Matter	89	% wet weight	2012FeedComp
Cheese	Whey, dried	Dried	Proximates	Dry Matter	94	% wet weight	2012FeedComp
Apple	Apple cake		Proximates	Dry Matter	16.5	% wet weight	Cropgen database
Banana	Banana	Musa paradisiaca, growth stage at harvest: peeling	Proximates	Dry Matter	22.4	% wet weight	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: vegetative stage+root	Proximates	Dry Matter	10.57	% wet weight	Cropgen database
Carrot	Carrot	Harvest time: September, growth stage at time of harvest: fully grown	Proximates	Dry Matter	12	% wet weight	Cropgen database

Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Proximates	Dry Matter	21.2	% wet weight	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Proximates	Dry Matter	11.2	% wet weight	Cropgen database
Distillers grain	Grain, mash		Proximates	Dry Matter	6.9	% wet weight	Cropgen database
Distillers grain	Grain, strip waste		Proximates	Dry Matter	89.2	% wet weight	Cropgen database
Grape	Grape marc	<1mm grinded	Proximates	Dry Matter	16.4	% wet weight	Cropgen database
Coffee	Malt coffee marc		Proximates	Dry Matter	21.1	% wet weight	Cropgen database
Fruit and vegetables, unspecified	Market waste, fruit and vegetables	Mesophilic	Proximates	Dry Matter	30	% wet weight	Cropgen database
Fruit and vegetables, unspecified	Market waste, fruit and vegetables	Thermophilic	Proximates	Dry Matter	30	% wet weight	Cropgen database
Rape	Oil seed rape	Brassica napus, growth stage at harvest: reproductive stage (pod filled)	Proximates	Dry Matter	26.23	% wet weight	Cropgen database
Pineapple	Pineapple waste		Proximates	Dry Matter	19.6	% wet weight	Cropgen database

Potato	Potato	Harvest time: July-Sept	Proximates	Dry Matter	19	% wet weight	Cropgen database
Potato	Potato amniotic fluid (starch production)		Proximates	Dry Matter	3.5	% wet weight	Cropgen database
Potato	Potato mash	Starch production	Proximates	Dry Matter	4.7	% wet weight	Cropgen database
Potato	Potato process water	Starch production	Proximates	Dry Matter	1.6	% wet weight	Cropgen database
Potato	Potato pulp		Proximates	Dry Matter	19	% wet weight	Cropgen database
Potato	Potato	Shredder	Proximates	Dry Matter	20.1	% wet weight	Cropgen database
Rape	Rape	Brassica napus, growth stage: tops	Proximates	Dry Matter	10.8	% wet weight	Cropgen database
Rape	Rape cake	Pressed cold	Proximates	Dry Matter	20.5	% wet weight	Cropgen database
Rape	Rape FM		Proximates	Dry Matter	38.5	% wet weight	Cropgen database
Rape	Rapeseed	Usual harvest time for animal food	Proximates	Dry Matter	21.48	% wet weight	Cropgen database
Rape	Rapeseed straw	Brassica rapa spp. Oleifera	Proximates	Dry Matter	90	% wet weight	Cropgen database
Sugar beet	Sugar beet	Beta vulgaris	Proximates	Dry Matter	12.2	% wet weight	Cropgen database

Sugar beet	Sugar beet		Proximates	Dry Matter	19.5	% wet weight	Cropgen database
Sugar beet	Sugar beet leaves	Silage	Proximates	Dry Matter	23.4	% wet weight	Cropgen database
Sugar beet	Sugar beet tops	Beta vulgaris, harvest time: October	Proximates	Dry Matter	11.2	% wet weight	Cropgen database
Sugar beet	Sugar beet tops	Beta vulgaris, harvest time: October	Proximates	Dry Matter	9.5	% wet weight	Cropgen database
Sugar beet	Sugar beet leaves	Fresh	Proximates	Dry Matter	18.1	% wet weight	Cropgen database
Sunflower	Sunflower	Maturity Index [Maize/DM Yield per ha]: /55,5, XP [%] 7.11, XF [%DM] 58.89, Nfe [%DM] 15.29, ME [Mj/kg] 8.5	Proximates	Dry Matter	34.83	% wet weight	Cropgen database
Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Proximates	Dry Matter	92	% wet weight	Cropgen database

Sugar beet	Sugar beet tops	Residual	Proximates	Dry Matter	11.6	% wet weight	Cropgen database
Wheat	Wheat	Growth stage at harvest: pasty	Proximates	Dry Matter	37.69	% wet weight	Cropgen database
Wheat	Wheat	Growth stage at harvest: milky	Proximates	Dry Matter	37.69	% wet weight	Cropgen database
Wheat	Wheat	Growth stage at harvest: flowering	Proximates	Dry Matter	37.69	% wet weight	Cropgen database
Wheat	Wheat grain		Proximates	Dry Matter	86.6	% wet weight	Cropgen database
Wheat	Wheat straw		Proximates	Dry Matter	90.2	% wet weight	Cropgen database
Cabbage	Cabbage leaves	White. Brassica oleracea var. capitata	Proximates	Dry Matter	11.4	% wet weight	Cropgen database
Banana	Banana leaves		Proximates	Dry Matter	15	% wet weight	Utilization of fruit and vegetable wastes, FAO
Banana	Banana pseudo stems		Proximates	Dry Matter	5-8	% wet weight	Utilization of fruit and vegetable wastes, FAO

Carrot	Carrot	Daucus carota	Proximates	Dry Matter	10.1	% wet weight	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Proximates	Dry Matter	9.5	% wet weight	Vegetable waste as animal feed paper
Cucumber	Cucumber	Cucumis sativus	Proximates	Dry Matter	37	% wet weight	Vegetable waste as animal feed paper
Cucumber	Cucumber peel	Cucumis sativus	Proximates	Dry Matter	7.88	% wet weight	Vegetable waste as animal feed paper
Food, unspecified	Grocery by-product waste	Fruits, vegetables and bakery items from retail grocery stores	Proximates	Dry Matter	17.5	% wet weight	Vegetable waste as animal feed paper
Potato	Potato	Solanum tuberosum	Proximates	Dry Matter	12	% wet weight	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Proximates	Dry Matter	11.7	% wet weight	Vegetable waste as animal feed paper

Potato	Potato vines	Solanum tuberosum	Proximates	Dry Matter	11.7	% wet weight	Vegetable waste as animal feed paper
Pumpkin	Pumpkin oil meal	Cucurbita pepo	Proximates	Dry Matter	92.2	% wet weight	Vegetable waste as animal feed paper
Tomatoes	Tomato	L.esculentum	Proximates	Dry Matter	6.5-6.9	% wet weight	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Dry Matter	25.3	% wet weight	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Proximates	Dry Matter	10	% wet weight	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Proximates	Dry Matter	13	% wet weight	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Dry Matter	10	% wet weight	Vegetable waste as animal feed paper
Bakery	Bakery product, dried	Dried	Proximates	Dry Matter	90	% wet weight	2012FeedComp

Canola	Canola meal	Solv. Ext.	Proximates	Dry Matter	90	% wet weight	2012FeedComp
Cotton	Cottonseed	Whole	Proximates	Dry Matter	91	% wet weight	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Proximates	Dry Matter	90	% wet weight	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Proximates	Dry Matter	92	% wet weight	2012FeedComp
Grain, unspecified	Grain screenings		Proximates	Dry Matter	90	% wet weight	2012FeedComp
Grain, unspecified	Grain dust		Proximates	Dry Matter	92	% wet weight	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Proximates	Dry Matter	93	% wet weight	2012FeedComp
Milk	Milk, dried	Dry, skim	Proximates	Dry Matter	94	% wet weight	2012FeedComp
Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Proximates	Dry Matter	38.9	% wet weight	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Proximates	Dry Matter	45.8	% wet weight	Composted slaughterhouse waste as organic fertilizer

Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Proximates	Dry Matter	60	% wet weight	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Proximates	Dry Matter	55.7	% wet weight	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Proximates	Dry Matter	95	% wet weight	Composted slaughterhouse waste as organic fertilizer
Beef	Rumen content	Abattoir waste	Proximates	Dry Matter	71.15	% wet weight	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Dry Matter	89.1	% wet weight	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Dry Matter	92	% wet weight	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Sugar by-products, unspecified	Bagasse		Proximates	Dry Matter	97.4	% wet weight	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; end pressure MPa: 0.5	Proximates	Dry Matter	26.6	% wet weight	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; O2 pressure MPa: 0.6; end pressure MPa: 1.0	Proximates	Dry Matter	29.8	% wet weight	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; end pressure MPa: 0.7	Proximates	Dry Matter	24.8	% wet weight	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; O2 pressure MPa: 0.6; end pressure MPa: 1.7	Proximates	Dry Matter	27.7	% wet weight	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; end pressure MPa: 1.1	Proximates	Dry Matter	25.2	% wet weight	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; O2 pressure MPa: 0.6; end pressure MPa: 1.9	Proximates	Dry Matter	28.4	% wet weight	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; end pressure MPa: 1.4	Proximates	Dry Matter	26.5	% wet weight	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; O2 pressure MPa: 0.6; end pressure MPa: 2.2	Proximates	Dry Matter	21.3	% wet weight	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Rice	Rice hay		Proximates	Dry Matter	85	% wet weight	Feedipedia
Rice	Rice, aerial part	Fresh	Proximates	Dry Matter	34.6	% wet weight	Feedipedia
Rice	Rice straw		Proximates	Dry Matter	92.8	% wet weight	Feedipedia
Rice	Rice straw	Urea-treated	Proximates	Dry Matter	94	% wet weight	Feedipedia
Rice	Rice straw	Ammonia-treated	Proximates	Dry Matter	70.9	% wet weight	Feedipedia
Rice	Rice straw	NaOH-treated	Proximates	Dry Matter	69.4	% wet weight	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Dry Matter	22.6	% wet weight	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Dry Matter	38.8	% wet weight	Feedipedia

Sugar cane	Sugar cane leaves	Fresh	Proximates	Dry Matter	42.4	% wet weight	Feedipedia
Sugar cane	Sugar cane leaves, dried	Dry	Proximates	Dry Matter	85.6	% wet weight	Feedipedia
Wheat	Triticale grain		Proximates	Dry Matter	87.1	% wet weight	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Dry Matter	31.6	% wet weight	Feedipedia
Wheat	Triticale straw		Proximates	Dry Matter	92.5	% wet weight	Feedipedia
Wheat	Wheat straw		Proximates	Dry Matter	91	% wet weight	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Dry Matter	29.5	% wet weight	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Dry Matter	39.6	% wet weight	Feedipedia
Palm	Oil palm fronds, dried	Dried, Elaeis guineensis	Proximates	Dry Matter	88.9	% wet weight	Feedipedia
Palm	Oil palm fronds	Silage	Proximates	Dry Matter	33.4	% wet weight	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Dry Matter	46.9	% wet weight	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Dry Matter	24.1	% wet weight	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Dry Matter	90.7	% wet weight	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Dry Matter	91.3	% wet weight	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Dry Matter	48.3	% wet weight	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Dry Matter	91	% wet weight	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Dry Matter	24.9	% wet weight	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Dry Matter	25.6	% wet weight	Feedipedia
Rice	Rice grain	Polished	Proximates	Dry Matter	89.2	% wet weight	Feedipedia
Rice	Rice grain	Polished, parboiled	Proximates	Dry Matter	87.4	% wet weight	Feedipedia
Rice	Rice grain	Brown	Proximates	Dry Matter	88.6	% wet weight	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Dry Matter	89.9	% wet weight	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Dry Matter	89	% wet weight	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Dry Matter	92.2	% wet weight	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Dry Matter	88.3	% wet weight	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Dry Matter	35.2	% wet weight	Feedipedia

Distillery by-products, unspecified	Thin stillage		Proximates	Dry Matter	4.7	% wet weight	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Dry Matter	90	% wet weight	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Dry Matter	90.1	% wet weight	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Dry Matter	90.2	% wet weight	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Dry Matter	91.7	% wet weight	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Dry Matter	89.7	% wet weight	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Dry Matter	89	% wet weight	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Dry Matter	91.6	% wet weight	Feedipedia
Rice	Rice hull		Proximates	Dry Matter	91.9	% wet weight	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Dry Matter	88	% wet weight	Feedipedia
Sorghum	Sorghum bran and milling offal		Proximates	Dry Matter	89.8	% wet weight	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Dry Matter	94.2	% wet weight	Feedipedia
Sorghum	Malted sorghum sprouts		Proximates	Dry Matter	91.3	% wet weight	Feedipedia

Distillers grain	Distillers grain	Fresh, Sorghum, with or without solubles	Proximates	Dry Matter	31.6	% wet weight	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Dry Matter	89.9	% wet weight	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Dry Matter	91.2	% wet weight	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Dry Matter	91	% wet weight	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Dry Matter	98.1	% wet weight	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Dry Matter	87.4	% wet weight	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Dry Matter	88.6	% wet weight	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Dry Matter	87.4	% wet weight	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Dry Matter	89.8	% wet weight	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Dry Matter	90.7	% wet weight	Feedipedia
Wheat	Wheat starch		Proximates	Dry Matter	89.7	% wet weight	Feedipedia
Wheat	Wheat bran		Proximates	Dry Matter	87	% wet weight	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Dry Matter	90.6	% wet weight	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Dry Matter	92.4	% wet weight	Feedipedia

Wheat	Wheat germs		Proximates	Dry Matter	88.7	% wet weight	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Proximates	Dry Matter	86.6	% wet weight	Feedipedia
Wheat	Wheat grain		Proximates	Dry Matter	87	% wet weight	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Dry Matter	87.9	% wet weight	Feedipedia
Wheat	Wheat screenings		Proximates	Dry Matter	88.2	% wet weight	Feedipedia
Nuts, unspecified	Nut kernels	Almond	Proximates	Dry Matter	94.5	% wet weight	Feedipedia
Nuts, unspecified	Nut oil meal	Almond, with hulls, mechanical extraction	Proximates	Dry Matter	89.3	% wet weight	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Proximates	Dry Matter	85.5	% wet weight	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Proximates	Dry Matter	90.1	% wet weight	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Proximates	Dry Matter	85.4	% wet weight	Feedipedia
Argan	Argan oil cake	Solvent-extracted, Argania spinosa	Proximates	Dry Matter	99.1	% wet weight	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Dry Matter	93.6	% wet weight	Feedipedia

Nuts, unspecified	Nut oil meal	Cashew	Proximates	Dry Matter	93.7	% wet weight	Feedipedia
Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Dry Matter	89.9	% wet weight	Feedipedia
Castor	Castor hulls	Ricinus communis	Proximates	Dry Matter	91.9	% wet weight	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Dry Matter	92	% wet weight	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Dry Matter	88.6	% wet weight	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Dry Matter	88.8	% wet weight	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Dry Matter	91	% wet weight	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Dry Matter	91.5	% wet weight	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Dry Matter	89.8	% wet weight	Feedipedia
Coconut	Coconut copra	Fresh	Proximates	Dry Matter	50.7	% wet weight	Feedipedia
Coconut	Coconut coir dust		Proximates	Dry Matter	87.1	% wet weight	Feedipedia
Coconut	Coconut water		Proximates	Dry Matter	5.2	% wet weight	Feedipedia
Cotton	Cotton straw		Proximates	Dry Matter	75.7	% wet weight	Feedipedia
Cotton	Cotton leaves	Fresh	Proximates	Dry Matter	27.3	% wet weight	Feedipedia
Cotton	Cottonseed hulls		Proximates	Dry Matter	90.6	% wet weight	Feedipedia

Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Dry Matter	90.9	% wet weight	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Dry Matter	92.2	% wet weight	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Dry Matter	92.9	% wet weight	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Dry Matter	90.2	% wet weight	Feedipedia
Flax/linseed	Flax straw		Proximates	Dry Matter	90	% wet weight	Feedipedia
Flax/linseed	Flax chaff		Proximates	Dry Matter	91.3	% wet weight	Feedipedia
Flax/linseed	Flax shives		Proximates	Dry Matter	90.7	% wet weight	Feedipedia
Flax/linseed	Flax, aerial part	Fresh	Proximates	Dry Matter	21.9	% wet weight	Feedipedia
Flax/linseed	Flax hay		Proximates	Dry Matter	90.1	% wet weight	Feedipedia
Grape	Grape seeds		Proximates	Dry Matter	92	% wet weight	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Dry Matter	88.4	% wet weight	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Proximates	Dry Matter	90.6	% wet weight	Feedipedia
Flax/linseed	Linseed meal		Proximates	Dry Matter	90.6	% wet weight	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Dry Matter	87.6	% wet weight	Feedipedia
Flax/linseed	Linseeds		Proximates	Dry Matter	91.5	% wet weight	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Dry Matter	95.6	% wet weight	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Dry Matter	87.7	% wet weight	Feedipedia

Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Dry Matter	91.4	% wet weight	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Dry Matter	90.2	% wet weight	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Dry Matter	91.2	% wet weight	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Dry Matter	95.1	% wet weight	Feedipedia
Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Proximates	Dry Matter	89.4	% wet weight	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Dry Matter	88	% wet weight	Feedipedia
Mustard	Mustard seeds	Brassica sp.	Proximates	Dry Matter	91.7	% wet weight	Feedipedia
Palm	Oil palm kernels		Proximates	Dry Matter	91.8	% wet weight	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Dry Matter	87.7	% wet weight	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Dry Matter	87.5	% wet weight	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Dry Matter	88.4	% wet weight	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Proximates	Dry Matter	82.8	% wet weight	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Dry Matter	77.8	% wet weight	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Dry Matter	88.7	% wet weight	Feedipedia
Olive	Olive pits	Exhausted	Proximates	Dry Matter	89	% wet weight	Feedipedia
Olive	Olive kernels	Exhausted	Proximates	Dry Matter	93	% wet weight	Feedipedia

Olive	Olive skins		Proximates	Dry Matter	89.2	% wet weight	Feedipedia
Olive	Olive oil vegetation water		Proximates	Dry Matter	50.8	% wet weight	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Dry Matter	91.2	% wet weight	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Dry Matter	90.9	% wet weight	Feedipedia
Palm	Palm oil mill effluent	Decanted	Proximates	Dry Matter	68.4	% wet weight	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Dry Matter	92.3	% wet weight	Feedipedia
Palm	Palm press fibre	High oil	Proximates	Dry Matter	83.6	% wet weight	Feedipedia
Palm	Palm press fibre	Low oil	Proximates	Dry Matter	79.4	% wet weight	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Dry Matter	91.2	% wet weight	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Dry Matter	19.8	% wet weight	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Dry Matter	91.6	% wet weight	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Dry Matter	90.4	% wet weight	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Dry Matter	89.4	% wet weight	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Dry Matter	92.3	% wet weight	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Dry Matter	95.5	% wet weight	Feedipedia
Peanuts	Peanuts, with shells	With shells	Proximates	Dry Matter	92.9	% wet weight	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Dry Matter	92.8	% wet weight	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Dry Matter	92.5	% wet weight	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Dry Matter	89.8	% wet weight	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Dry Matter	93.9	% wet weight	Feedipedia
Pumpkin	Pumpkin	Fruits, fresh, Cucurbita sp.	Proximates	Dry Matter	7.6	% wet weight	Feedipedia
Pumpkin	Pumpkin	Fruits, dried, Cucurbita sp.	Proximates	Dry Matter	90.3	% wet weight	Feedipedia
Pumpkin	Pumpkin crop by-product	Fresh, Cucurbita sp.	Proximates	Dry Matter	14	% wet weight	Feedipedia
Pumpkin	Pumpkin hulls	Cucurbita sp.	Proximates	Dry Matter	89.8	% wet weight	Feedipedia

Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Dry Matter	92.2	% wet weight	Feedipedia
Pumpkin	Pumpkin oil meal	Mechanical extraction, Cucurbita sp.	Proximates	Dry Matter	88	% wet weight	Feedipedia
Pumpkin	Pumpkin seeds	With hulls, Cucurbita sp.	Proximates	Dry Matter	90	% wet weight	Feedipedia
Pumpkin	Pumpkin seeds	Without hulls, Cucurbita sp.	Proximates	Dry Matter	92.6	% wet weight	Feedipedia
Rape	Rape forage	Fresh	Proximates	Dry Matter	11.5	% wet weight	Feedipedia
Rape	Rape forage	Silage	Proximates	Dry Matter	16.9	% wet weight	Feedipedia
Rape	Rape forage, dried	Dehydrated	Proximates	Dry Matter	86.8	% wet weight	Feedipedia
Rape	Rape straw		Proximates	Dry Matter	91.1	% wet weight	Feedipedia
Rape	Rapeseed hulls		Proximates	Dry Matter	87.2	% wet weight	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Dry Matter	88.8	% wet weight	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Dry Matter	89.9	% wet weight	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Dry Matter	90	% wet weight	Feedipedia

Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Dry Matter	92.3	% wet weight	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Dry Matter	92.3	% wet weight	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Dry Matter	93.2	% wet weight	Feedipedia
Safflower	Safflower meal	Without hulls, expeller extraction. Carthamus tinctorius	Proximates	Dry Matter	91.7	% wet weight	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Dry Matter	94.7	% wet weight	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Dry Matter	92.8	% wet weight	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Dry Matter	93.7	% wet weight	Feedipedia
Sesame	Sesame seeds	Whole	Proximates	Dry Matter	96.6	% wet weight	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Dry Matter	24	% wet weight	Feedipedia
Soy	Soybean hay		Proximates	Dry Matter	91.5	% wet weight	Feedipedia
Soy	Soybean straw		Proximates	Dry Matter	89.1	% wet weight	Feedipedia
Soy	Soybean hulls		Proximates	Dry Matter	89.1	% wet weight	Feedipedia

Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Dry Matter	87.9	% wet weight	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Dry Matter	88.1	% wet weight	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Dry Matter	90.7	% wet weight	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Dry Matter	88.7	% wet weight	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Dry Matter	91.2	% wet weight	Feedipedia
Soy	Soybeans	Toasted	Proximates	Dry Matter	88.6	% wet weight	Feedipedia
Soy	Soybeans	Extruded	Proximates	Dry Matter	89	% wet weight	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Dry Matter	15.8	% wet weight	Feedipedia
Sunflower	Sunflower forage	Silage	Proximates	Dry Matter	21.6	% wet weight	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Proximates	Dry Matter	75.8	% wet weight	Feedipedia
Sunflower	Sunflower heads	Without seeds	Proximates	Dry Matter	89.2	% wet weight	Feedipedia
Sunflower	Sunflower stalks		Proximates	Dry Matter	89.8	% wet weight	Feedipedia
Sunflower	Sunflower hulls		Proximates	Dry Matter	90.7	% wet weight	Feedipedia

Sunflower	Sunflower screenings		Proximates	Dry Matter	90.1	% wet weight	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Dry Matter	89	% wet weight	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Dry Matter	89.8	% wet weight	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Dry Matter	88.9	% wet weight	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Dry Matter	91.8	% wet weight	Feedipedia
Sunflower	Sunflower seeds		Proximates	Dry Matter	92.8	% wet weight	Feedipedia
Nuts, unspecified	Nut hulls	Walnut (Juglans regia)	Proximates	Dry Matter	92.3	% wet weight	Feedipedia
Nuts, unspecified	Nut kernels	Walnut (Juglans regia)	Proximates	Dry Matter	95.4	% wet weight	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Dry Matter	83.5	% wet weight	Feedipedia

Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Proximates	Dry Matter	94	% wet weight	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, high fibre	Proximates	Dry Matter	94.3	% wet weight	Feedipedia
Melon	Watermelon, hulls	Citrullus lanatus	Proximates	Dry Matter	92.1	% wet weight	Feedipedia
Melon	Watermelon, seeds	Decorticated. Citrullus lanatus	Proximates	Dry Matter	91.9	% wet weight	Feedipedia
Melon	Watermelon, seeds	Whole. Citrullus lanatus	Proximates	Dry Matter	88	% wet weight	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Dry Matter	91.2	% wet weight	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Dry Matter	20.8	% wet weight	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Dry Matter	14	%	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Dry Matter	21.9	% wet weight	Feedipedia
Banana	Banana fruits, ensiled	Mature, ensiled	Proximates	Dry Matter	23.5	% wet weight	Feedipedia

Banana	Banana fruits	Mature, without peel, fresh	Proximates	Dry Matter	30.5	% wet weight	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Dry Matter	22	% wet weight	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Proximates	Dry Matter	88.7	% wet weight	Feedipedia
Banana	Banana fruits, ensiled	Immature, ensiled	Proximates	Dry Matter	27.3	% wet weight	Feedipedia
Banana	Banana fruits, dried	Immature, without peel, dehydrated	Proximates	Dry Matter	93.3	% wet weight	Feedipedia
Plantain	Plantain banana fruits	Fresh	Proximates	Dry Matter	29.4	% wet weight	Feedipedia
Plantain	Plantain banana fruits, dried	Dehydrated	Proximates	Dry Matter	91.4	% wet weight	Feedipedia
Plantain	Plantain banana fruits	Without peel, cooked	Proximates	Dry Matter	42.8	% wet weight	Feedipedia
Banana	Banana flour		Proximates	Dry Matter	90	% wet weight	Feedipedia
Plantain	Plantain banana trunk	Fresh	Proximates	Dry Matter	6.9	% wet weight	Feedipedia
Banana	Banana leaves, dried	Dehydrated	Proximates	Dry Matter	94.3	% wet weight	Feedipedia
Banana	Banana stalks	Fresh	Proximates	Dry Matter	7.2	% wet weight	Feedipedia
Banana	Banana	Aerial part, fresh	Proximates	Dry Matter	16	% wet weight	Feedipedia

Plantain	Plantain banana leaves	Fresh	Proximates	Dry Matter	20.7	% wet weight	Feedipedia
Banana	Banana peel	Mature, fresh	Proximates	Dry Matter	15.4	% wet weight	Feedipedia
Banana	Banana peel	Immature, fresh	Proximates	Dry Matter	13.1	% wet weight	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Proximates	Dry Matter	17.9	% wet weight	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Proximates	Dry Matter	16	% wet weight	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Dry Matter	15.8	% wet weight	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Dry Matter	13.5	% wet weight	Feedipedia
Lime	Lime	Fruits (Citrus aurantiifolia)	Proximates	Dry Matter	31.9	% wet weight	Feedipedia
Grapefruit	Grapefruit	Fruits (Citrus paradisi), fresh	Proximates	Dry Matter	12.7	% wet weight	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Dry Matter	92.1	% wet weight	Feedipedia
Citrus, unspecified	Citrus molasses		Proximates	Dry Matter	71	%	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Dry Matter	89.6	% wet weight	Feedipedia
Orange	Orange pulp, dried		Proximates	Dry Matter	88	% wet weight	Feedipedia
Orange	Orange pulp, dried	Mandarin	Proximates	Dry Matter	91.9	% wet weight	Feedipedia

Lemon	Lemon pulp, dried		Proximates	Dry Matter	85.1	% wet weight	Feedipedia
Orange	Orange pulp	Fresh	Proximates	Dry Matter	23	%	Feedipedia
Grapefruit	Grapefruit pulp	Fresh	Proximates	Dry Matter	20.3	%	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Dry Matter	21.5	%	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Dry Matter	16.1	% wet weight	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Dry Matter	19.6	% wet weight	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Dry Matter	17.9	% wet weight	Feedipedia
Grapefruit	Grapefruit peel silage	Grapefruit	Proximates	Dry Matter	19.2	% wet weight	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Dry Matter	18.3	% wet weight	Feedipedia
Lime	Lime peel silage	Lime	Proximates	Dry Matter	23	% wet weight	Feedipedia
Citrus, unspecified	Citrus seed meal		Proximates	Dry Matter	86.4	% wet weight	Feedipedia
Lime	Lime seeds	Lime (Citrus aurantiifolia)	Proximates	Dry Matter	29.1	% wet weight	Feedipedia
Coffee	Coffee hulls		Proximates	Dry Matter	88.5	% wet weight	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Dry Matter	91.8	% wet weight	Feedipedia
Coffee	Coffee parchment		Proximates	Dry Matter	95.3	% wet weight	Feedipedia
Coffee	Instant coffee by product		Proximates	Dry Matter	90.9	% wet weight	Feedipedia

Coffee	Coffee oil meal	By product of essential oil extraction	Proximates	Dry Matter	95.7	% wet weight	Feedipedia
Coffee	Coffee leaves		Proximates	Dry Matter	92.3	% wet weight	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Dry Matter	84	% wet weight	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Dry Matter	84	% wet weight	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Dry Matter	88.3	% wet weight	Feedipedia
Date	Date palm leaves	Fresh	Proximates	Dry Matter	56.8	% wet weight	Feedipedia
Date	Date palm leaves, dried	Dry	Proximates	Dry Matter	92.2	% wet weight	Feedipedia
Date	Date palm pedicels		Proximates	Dry Matter	90.4	% wet weight	Feedipedia
Date	Date palm flower stems		Proximates	Dry Matter	41.6	% wet weight	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Dry Matter	91.8	% wet weight	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Dry Matter	38.7	% wet weight	Feedipedia
Grape	Grape pomace	Silage	Proximates	Dry Matter	37	% wet weight	Feedipedia

Melon	Melon	Fruit, fresh. Cucumis melo	Proximates	Dry Matter	8.2	% wet weight	Feedipedia
Melon	Melon seeds	Cucumis melo	Proximates	Dry Matter	95	% wet weight	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Dry Matter	88.6	% wet weight	Feedipedia
Pineapple	Pineapple leaves	Fresh, Ananas comosus	Proximates	Dry Matter	20.6	% wet weight	Feedipedia
Pineapple	Pineapple leaves	Silage, Ananas comosus	Proximates	Dry Matter	19.1	% wet weight	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Dry Matter	7.3	% wet weight	Feedipedia
Tomatoes	Tomato plant	Fresh, whole plant	Proximates	Dry Matter	17.7	% wet weight	Feedipedia
Tomatoes	Tomato, leaves	Fresh	Proximates	Dry Matter	12.6	% wet weight	Feedipedia
Tomatoes	Tomato, stems	Fresh	Proximates	Dry Matter	24.2	% wet weight	Feedipedia
Melon	Watermelon	Fruit, fresh. Citrullus lanatus	Proximates	Dry Matter	7.9	% wet weight	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Dry Matter	75.7	% wet weight	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Dry Matter	10.7	% wet weight	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Dry Matter	90	% wet weight	Feedipedia
Carrot	Carrot tops	Fresh	Proximates	Dry Matter	16.4	% wet weight	Feedipedia

Potato	Potato, aerial part	Ensiled	Proximates	Dry Matter	25	% wet weight	Feedipedia
Potato	Potato leaves, dried	Dried	Proximates	Dry Matter	91.2	% wet weight	Feedipedia
Potato	Potato aerial part	Fresh	Proximates	Dry Matter	23	% wet weight	Feedipedia
Potato	Potato peel	Fresh	Proximates	Dry Matter	17.8	% wet weight	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Dry Matter	20.2	% wet weight	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Dry Matter	89.2	% wet weight	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Dry Matter	88.3	% wet weight	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Dry Matter	24.1	% wet weight	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Proximates	Dry Matter	23.9	% wet weight	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Dry Matter	18.8	% wet weight	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Proximates	Dry Matter	27.9	% wet weight	Feedipedia
Sugar beet	Sugar beet leaves and tops	Fresh	Proximates	Dry Matter	11.5	% wet weight	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Dry Matter	17.9	% wet weight	Feedipedia
Sugar beet	Sugar beet tops	Silage	Proximates	Dry Matter	21.9	% wet weight	Feedipedia

Sugar beet	Sugar beet tops, dried	Dried	Proximates	Dry Matter	86.7	% wet weight	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Dry Matter	13	% wet weight	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Dry Matter	88.5	% wet weight	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Dry Matter	30	% wet weight	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Dry Matter	88	% wet weight	Feedipedia
Potato	Sweet potato	Tubers, cooked, fresh	Proximates	Dry Matter	39.2	% wet weight	Feedipedia
Sugar	Sugar, feed grade		Proximates	Dry Matter	97	% wet weight	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Dry Matter	89.2	% wet weight	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Dry Matter	46	% wet weight	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Dry Matter	92.5	% wet weight	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Urea-treated, dehydrated	Proximates	Dry Matter	33.7	% wet weight	Feedipedia
Sugar by-products, unspecified	Bagasse	NaOH-treated, fresh	Proximates	Dry Matter	62.1	% wet weight	Feedipedia

Sugar by-products, unspecified	Bagasse pith		Proximates	Dry Matter	87.8	% wet weight	Feedipedia
Sugar cane	Sugar cane juice		Proximates	Dry Matter	21.6	% wet weight	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Dry Matter	73	% wet weight	Feedipedia
Sugar cane	Sugar cane, syrup-off		Proximates	Dry Matter	75	% wet weight	Feedipedia
Sugar cane	Sugar cane mud	Filter press mud	Proximates	Dry Matter	26	% wet weight	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Dry Matter	26.8	% wet weight	Feedipedia
Sugar cane	Sugar cane tops	Silage	Proximates	Dry Matter	30.9	% wet weight	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Dry Matter	90.5	% wet weight	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Proximates	Dry Matter	88.3	% wet weight	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Dry Matter	68.7	% wet weight	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Dry Matter	70.8	% wet weight	Feedipedia

Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Dry Matter	65.5	% wet weight	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Dry Matter	6.1	% wet weight	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Dry Matter	95.2	% wet weight	Feedipedia
Lamb	Wool meal	Hydrolysed	Proximates	Dry Matter	80.5	% wet weight	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Dry Matter	93.8	% wet weight	Feedipedia
Animal by-products, unspecified	Blood meal	Preserved with acid	Proximates	Dry Matter	96.5	% wet weight	Feedipedia
Animal by-products, unspecified	Blood meal	Non-industrial	Proximates	Dry Matter	89.3	% wet weight	Feedipedia
Animal by-products, unspecified	Blood	Fresh	Proximates	Dry Matter	19.1	% wet weight	Feedipedia
Animal by-products, unspecified	Blood	Chicken, fresh	Proximates	Dry Matter	17.9	% wet weight	Feedipedia
Animal by-products, unspecified	Blood	Moist	Proximates	Dry Matter	75.3	% wet weight	Feedipedia
Animal by-products, unspecified	Bone meal	Calcinated	Proximates	Dry Matter	95.4	% wet weight	Feedipedia

Animal by-products, unspecified	Bone meal	Raw	Proximates	Dry Matter	75	% wet weight	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Dry Matter	92.5	% wet weight	Feedipedia
Crab	Crab meal, dried	Dehydrated	Proximates	Dry Matter	92.7	% wet weight	Feedipedia
Crab	Crab meal	Fresh	Proximates	Dry Matter	37.5	% wet weight	Feedipedia
Crab	Crab shells	Ground	Proximates	Dry Matter	90.5	% wet weight	Feedipedia
Eggs	Eggshells		Proximates	Dry Matter	98.9	% wet weight	Feedipedia
Poultry	Feather meal		Proximates	Dry Matter	92.1	% wet weight	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Dry Matter	92.1	% wet weight	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Dry Matter	92.2	% wet weight	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Dry Matter	92.5	% wet weight	Feedipedia
Fish, unspecified	Fish oil		Proximates	Dry Matter	99.9	% wet weight	Feedipedia
Fish, unspecified	Fish hydrolysate		Proximates	Dry Matter	97.7	% wet weight	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Dry Matter	95	% wet weight	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Dry Matter	39.5	% wet weight	Feedipedia

Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Dry Matter	96.6	% wet weight	Feedipedia
Fish, unspecified	Fish solubles	Menhaden, fresh	Proximates	Dry Matter	55.1	% wet weight	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Dry Matter	84.6	% wet weight	Feedipedia
Frog	Frog meal	Whole frog	Proximates	Dry Matter	90.4	% wet weight	Feedipedia
Poultry	Hatchery by product		Proximates	Dry Matter	99.3	% wet weight	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Dry Matter	89.6	% wet weight	Feedipedia
Lamb	Lamb hooves	Raw	Proximates	Dry Matter	38.6	% wet weight	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Dry Matter	92.7	% wet weight	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Dry Matter	81.3	% wet weight	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Dry Matter	96.2	% wet weight	Feedipedia
Animal by-products, unspecified	Liver meal	Cattle	Proximates	Dry Matter	98.4	% wet weight	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Dry Matter	96.1	% wet weight	Feedipedia

Animal by-products, unspecified	Liver meal	Poultry	Proximates	Dry Matter	98.3	% wet weight	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Dry Matter	16.7	% wet weight	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Dry Matter	87.6	% wet weight	Feedipedia
Rabbit	Rabbit manure, dried	Dehydrated	Proximates	Dry Matter	92	% wet weight	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Dry Matter	95.8	% wet weight	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Dry Matter	93.2	% wet weight	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Dry Matter	92.3	% wet weight	Feedipedia
Poultry	Poultry by product meal	High protein	Proximates	Dry Matter	93.7	% wet weight	Feedipedia
Poultry	Poultry feet	Chicken, raw	Proximates	Dry Matter	39.7	% wet weight	Feedipedia
Poultry	Poultry heads	Chicken, raw	Proximates	Dry Matter	32.8	% wet weight	Feedipedia
Poultry	Poultry viscera	Chicken, raw	Proximates	Dry Matter	26.3	% wet weight	Feedipedia
Beef	Rumen content	Calves, fresh	Proximates	Dry Matter	13.2	% wet weight	Feedipedia
Beef	Rumen content	Cattle, fresh	Proximates	Dry Matter	12	% wet weight	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Dry Matter	91.3	% wet weight	Feedipedia

Beef	Rumen content	Lambs, fresh	Proximates	Dry Matter	15.2	% wet weight	Feedipedia
Shrimp	Shrimp heads, dried	Dehydrated	Proximates	Dry Matter	92.5	% wet weight	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Dry Matter	91.3	% wet weight	Feedipedia
Shrimp	Shrimp waste	Fresh	Proximates	Dry Matter	25.2	% wet weight	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Dry Matter	90.3	% wet weight	Feedipedia
Shrimp	Shrimp waste	Ensiled, fresh	Proximates	Dry Matter	28	% wet weight	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Dry Matter	91.3	% wet weight	Feedipedia
Snail	Snail meal	With shells	Proximates	Dry Matter	90.8	% wet weight	Feedipedia
Snail	Snail meal	Without shells	Proximates	Dry Matter	91	% wet weight	Feedipedia
Squid	Squid meal		Proximates	Dry Matter	89.4	% wet weight	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Dry Matter	93.4	% wet weight	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Dry Matter	93.2	% wet weight	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Dry Matter	93.5	% wet weight	Feedipedia
Toad	Toad meal		Proximates	Dry Matter	93.5	% wet weight	Feedipedia
Whale	Whale meal		Proximates	Dry Matter	93.3	% wet weight	Feedipedia
Whale	Whale solubles	Condensed	Proximates	Dry Matter	50	% wet weight	Feedipedia

Cheese	Whey, dried	Sweet, dehydrated	Proximates	Dry Matter	97	% wet weight	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Dry Matter	97.1	% wet weight	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Dry Matter	93.6	% wet weight	Feedipedia
Bakery	Bakery and viennoiserie by products		Proximates	Dry Matter	90.7	%	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Dry Matter	92.3	% wet weight	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Dry Matter	92	% wet weight	Feedipedia
Corn	Maize starch		Proximates	Dry Matter	88.1	% wet weight	Feedipedia
Pea	Pea starch		Proximates	Dry Matter	86	% wet weight	Feedipedia
Cassava	Cassava starch		Proximates	Dry Matter	85.5	% wet weight	Feedipedia

Cabbage	Cabbage meal		Proximates	Dry Matter	940	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology
Nuts, unspecified	Nut hulls	Almond	Proximates	Dry Matter	981	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Cotton	Cottonseed	Cracked Pima	Proximates	Dry Matter	915	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Canola	Canola meal	Pellets (380g/kg CP, solvent)	Proximates	Dry Matter	893	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Distillers grain	Distillers grain	High CP (corn with solubles)	Proximates	Dry Matter	915	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Wheat	Wheat	Silage	Proximates	Dry Matter	321	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Citrus, unspecified	Citrus pulp		Proximates	Dry Matter	158	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Potato	Potato	Tubers (whole)	Proximates	Dry Matter	197	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Apple	Apple waste	Processing waste: filtration cake, pulp	Proximates	Dry Matter	740	g/kg FM	Online European Feedstock Atlas basis version

Apple	Apple pomace	Fresh	Proximates	Dry Matter	202	g/kg FM	Online European Feedstock Atlas basis version
Apple	Apple pomace	From juice making	Proximates	Dry Matter	201.7	g/kg FM	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace	From puree making	Proximates	Dry Matter	185	g/kg FM	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace		Proximates	Dry Matter	888	g/kg FM	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace

Grape	Grape marc	Fresh	Proximates	Dry Matter	282	g/kg FM	Online European Feedstock Atlas basis version
Grape	Grape pomace		Proximates	Dry Matter	880	g/kg FM	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace
Wheat	Wheat middlings		Proximates	Dry Matter	884	g/kg FM	Online European Feedstock Atlas basis version
Wheat	Wheat		Proximates	Dry Matter	860	g/kg FM	Distillery feed by-products briefing
Wheat	Wheat grain	Dark	Proximates	Dry Matter	900	g/kg FM	Distillery feed by-products briefing

Wheat	Wheat meal		Proximates	Dry Matter	868	g/kg FM	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Sugar beet	Sugar beet molasses	From pulp	Proximates	Dry Matter	913	g/kg FM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Dry Matter	918	g/kg FM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Dry Matter	964	g/kg FM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet feed	Molassed	Proximates	Dry Matter	890	g/kg FM	Distillery feed by-products briefing
Rape	Rapeseed meal		Proximates	Dry Matter	900	g/kg FM	Distillery feed by-products briefing
Brewer's yeast/grains, unspecified	Brewer's grains or draff (23% DM)		Proximates	Dry Matter	230	g/kg FM	Distillery feed by-products briefing
Grape	Grape pomace	Skin and seeds, white grape	Proximates	Dry Matter	920	g/kg FM	Chemical composition and digestibility of dried white and red grape pomace for ruminants

Grape	Grape pomace	Skin and seeds, red grape	Proximates	Dry Matter	906	g/kg FM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape marc	Grape marc from Gonzlez-Byass	Proximates	Dry Matter	450	g/kg FM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc	Grape marc from Movialsa	Proximates	Dry Matter	494	g/kg FM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape vine shoot		Proximates	Dry Matter	506	g/kg FM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	White	Proximates	Dry Matter	144	g/kg FM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Red	Proximates	Dry Matter	185	g/kg FM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	Sherry	Proximates	Dry Matter	277	g/kg FM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc and lees		Proximates	Dry Matter	531	g/kg FM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Distillers grain	Distillers grain	Wheat, dark grains	Proximates	Dry Matter	900	g/kg FM	Distillery feed by-products briefing
Distillers grain	Distillers grain	Malt, dark grains	Proximates	Dry Matter	900	g/kg FM	Distillery feed by-products briefing

Bamboo	Bamboo shoot shells		Proximates	Dry Matter	128	g/kg FM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Rice	Rice straw		Proximates	Dry Matter	889	g/kg FM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep

Wheat	Wheat bran		Proximates	Dry Matter	846	g/kg FM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Bamboo	Bamboo shoot shells	Ensiled	Proximates	Dry Matter	126	g/kg FM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep

Soy	Soybean meal	Soya bean	Proximates	Dry Matter	864	g/kg FM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed cake		Proximates	Dry Matter	904	g/kg FM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed hulls	Purified	Proximates	Dry Matter	874.6	g/kg FM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls
Fish, unspecified	Fish meal	Low temperature dried	Proximates	Dry Matter	921	g/kg FM	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed

Wheat	Wheat gluten		Proximates	Dry Matter	922	g/kg FM	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed
Soy	Soy protein concentrate		Proximates	Dry Matter	916	g/kg FM	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed

Fish, unspecified	Fish meal		Proximates	Dry Matter	906	g/kg FM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Dry Matter	901	g/kg FM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Dry Matter	928	g/kg FM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Dry Matter	914	g/kg FM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Dry Matter	920	g/kg FM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Wheat	Wheat	Silage. Location: centre	Proximates	Dry Matter	358	g/kg FM	Changes during aerobic exposure of wheat silages
Wheat	Wheat	Silage. Location: wall	Proximates	Dry Matter	352	g/kg FM	Changes during aerobic exposure of wheat silages
Wheat	Wheat	Silage. Location: shoulder	Proximates	Dry Matter	345	g/kg FM	Changes during aerobic exposure of wheat silages

Wheat	Wheat	Silage. Location: SEM	Proximates	Dry Matter	51	g/kg FM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: centre	Proximates	Dry Matter	357	g/kg FM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: wall	Proximates	Dry Matter	334	g/kg FM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: shoulder	Proximates	Dry Matter	287	g/kg FM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: SEM	Proximates	Dry Matter	60	g/kg FM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: centre	Proximates	Dry Matter	352	g/kg FM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: wall	Proximates	Dry Matter	338	g/kg FM	Changes during aerobic exposure of wheat silages

Sorghum	Sorghum silage	Location: shoulder	Proximates	Dry Matter	323	g/kg FM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: SEM	Proximates	Dry Matter	48	g/kg FM	Changes during aerobic exposure of wheat silages
Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Dry Matter	871	g/kg FM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Dry Matter	586	g/kg FM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Nuts, unspecified	Nut meal	Babacu	Proximates	Dry Matter	908	g/kg FM	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Proximates	Dry Matter	933	g/kg FM	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cassava	Cassava meal		Proximates	Dry Matter	876	g/kg FM	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Coconut	Coconut meal	Solv	Proximates	Dry Matter	923	g/kg FM	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Proximates	Dry Matter	898	g/kg FM	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cotton	Cottonseed meal	solv	Proximates	Dry Matter	899	g/kg FM	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Poultry	Feather meal	Hydrolyzed	Proximates	Dry Matter	904	g/kg FM	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Proximates	Dry Matter	932	g/kg FM	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Rice	Rice bran	Defatted	Proximates	Dry Matter	886	g/kg FM	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Soy	Soybean meal	solv	Proximates	Dry Matter	883	g/kg FM	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Sugar cane	Sugar cane juice		Proximates	Dry Matter	19	g/kg FM	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Proximates	Dry Matter	896	g/kg FM	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Wheat	Wheat bran		Proximates	Dry Matter	878	g/kg FM	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Grape	Grape pomace	Whole. White, Italian	Proximates	Dry Matter	470	g/kg FM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pomace	Whole. Red, Italian	Proximates	Dry Matter	470	g/kg FM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pomace	Whole. Californian	Proximates	Dry Matter	329	g/kg FM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Citrus, unspecified	Citrus pulp silage		Proximates	Dry Matter	210	g/kg	Citrus by-products as ruminant feeds: A review

Orange	Orange	Fresh, whole	Proximates	Dry Matter	130	g/kg	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus meal, dried		Proximates	Dry Matter	910	g/kg FM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Dry Matter	858	g/kg FM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Dry Matter	910	g/kg FM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Proximates	Dry Matter	680	g/kg	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Dry Matter	880	g/kg FM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Proximates	Dry Matter	897	g/kg FM	Citrus by-products as ruminant feeds: A review
Orange	Orange peel	Fresh	Proximates	Dry Matter	233	g/kg	Citrus by-products as ruminant feeds: A review
Orange	Orange peel silage		Proximates	Dry Matter	193	g/kg	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp silage		Proximates	Dry Matter	154	g/kg	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Fresh	Proximates	Dry Matter	192	g/kg	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Dry Matter	902	g/kg FM	Citrus by-products as ruminant feeds: A review

Lemon	Lemon pulp	Fresh	Proximates	Dry Matter	181	g/kg	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Proximates	Dry Matter	202	g/kg	Citrus by-products as ruminant feeds: A review
Lemon	Lemon, dried	Whole	Proximates	Dry Matter	920	g/kg FM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Proximates	Dry Matter	903	g/kg FM	Citrus by-products as ruminant feeds: A review
Barley	Barley grains		Proximates	Dry Matter	876	g/kg FM	Online European Feedstock Atlas basis version
Barley	Barley, total plants silage		Proximates	Dry Matter	298	g/kg FM	Online European Feedstock Atlas basis version

Barley	Barley	Whole plant, fresh	Proximates	Dry Matter	269	g/kg FM	Online European Feedstock Atlas basis version
Wheat	Wheat grain		Proximates	Dry Matter	868	g/kg FM	Online European Feedstock Atlas basis version
Wheat	Wheat	Total plants silage	Proximates	Dry Matter	396	g/kg FM	Online European Feedstock Atlas basis version
Wheat	Wheat	Whole plant, fresh	Proximates	Dry Matter	288	g/kg FM	Online European Feedstock Atlas basis version
Rape	Rapeseed grains		Proximates	Dry Matter	880	g/kg FM	Online European Feedstock Atlas basis version
Rape	Rapeseed	Total plants silage	Proximates	Dry Matter	200	g/kg FM	Online European Feedstock Atlas basis version

Rape	Rapeseed	Whole plant, fresh	Proximates	Dry Matter	120	g/kg FM	Online European Feedstock Atlas basis version
Sunflower	Sunflower seeds		Proximates	Dry Matter	880	g/kg FM	Online European Feedstock Atlas basis version
Sunflower	Sunflower	Total plants silage	Proximates	Dry Matter	244	g/kg FM	Online European Feedstock Atlas basis version
Sunflower	Sunflower	Whole plant, fresh	Proximates	Dry Matter	123	g/kg FM	Online European Feedstock Atlas basis version
Potato	Potato	Fresh	Proximates	Dry Matter	220	g/kg FM	Online European Feedstock Atlas basis version
Potato	Potato	Silage	Proximates	Dry Matter	212	g/kg FM	Online European Feedstock Atlas basis version

Sugar beet	Sugar beet	Beet only, fresh	Proximates	Dry Matter	200	g/kg FM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet	Total plants silage	Proximates	Dry Matter	149	g/kg FM	Online European Feedstock Atlas basis version
Pineapple	Pineapple		Proximates	Dry Matter	162	g/kg FM	Online European Feedstock Atlas basis version
Bakery	Bakery residues		Proximates	Dry Matter	882	g/kg FM	Online European Feedstock Atlas basis version
Barley	Barley bran		Proximates	Dry Matter	893	g/kg FM	Online European Feedstock Atlas basis version
Barley	Barley feeding meal		Proximates	Dry Matter	880	g/kg FM	Online European Feedstock Atlas basis version

Bran	Bran and cereal strip waste (70:30)	Fresh	Proximates	Dry Matter	950	g/kg FM	Online European Feedstock Atlas basis version
Cereal, unspecified	Cereal strip waste	Fresh	Proximates	Dry Matter	889	g/kg FM	Online European Feedstock Atlas basis version
Rice	Rice feeding meal		Proximates	Dry Matter	896	g/kg FM	Online European Feedstock Atlas basis version
Wheat	Wheat bran		Proximates	Dry Matter	885	g/kg FM	Online European Feedstock Atlas basis version
Wheat	Wheat germs		Proximates	Dry Matter	900	g/kg FM	Online European Feedstock Atlas basis version
Potato products	Chip fat		Proximates	Dry Matter	997	g/kg FM	Online European Feedstock Atlas basis version

Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Dry Matter	233	g/kg FM	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's grains and yeast		Proximates	Dry Matter	675	g/kg FM	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	Dry Matter	900	g/kg FM	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Dry Matter	189	g/kg FM	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Proximates	Dry Matter	900	g/kg FM	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's yeast	Fresh	Proximates	Dry Matter	139	g/kg FM	Online European Feedstock Atlas basis version

Distillers grain	Distillers grain, dried	Dried, solubles only	Proximates	Dry Matter	924	g/kg FM	Online European Feedstock Atlas basis version
Distillers grain	Distillers grain, dried	Dried	Proximates	Dry Matter	917	g/kg FM	Online European Feedstock Atlas basis version
Distillers grain	Distillers grain	Fresh	Proximates	Dry Matter	91	g/kg FM	Online European Feedstock Atlas basis version
Distillery by-products, unspecified	Distillers residues	Fresh	Proximates	Dry Matter	67	g/kg FM	Online European Feedstock Atlas basis version
Potato	Potato pulp	Fresh	Proximates	Dry Matter	60	g/kg FM	Online European Feedstock Atlas basis version
Food, unspecified	Food leftovers		Proximates	Dry Matter	197	g/kg FM	Online European Feedstock Atlas basis version

Tea	Medicinal tea	Fresh	Proximates	Dry Matter	111	g/kg FM	Online European Feedstock Atlas basis version
Animal by-products, unspecified	Animal fats		Proximates	Dry Matter	999	g/kg FM	Online European Feedstock Atlas basis version
Fish, unspecified	Fish liver meal		Proximates	Dry Matter	910	g/kg FM	Online European Feedstock Atlas basis version
Fish, unspecified	Fish meal		Proximates	Dry Matter	908	g/kg FM	Online European Feedstock Atlas basis version
Animal by-products, unspecified	Meat waste		Proximates	Dry Matter	364	g/kg FM	Online European Feedstock Atlas basis version
Poultry	Offals	Poultry meat offals	Proximates	Dry Matter	940	g/kg FM	Online European Feedstock Atlas basis version

Corn	Maize gluten feed		Proximates	Dry Matter	896	g/kg FM	Online European Feedstock Atlas basis version
Potato	Potato chips		Proximates	Dry Matter	883	g/kg FM	Online European Feedstock Atlas basis version
Potato	Potato flakes		Proximates	Dry Matter	880	g/kg FM	Online European Feedstock Atlas basis version
Potato	Potato press water		Proximates	Dry Matter	25.5	g/kg FM	Online European Feedstock Atlas basis version
Potato	Potato pulp, dried	Dried	Proximates	Dry Matter	883	g/kg FM	Online European Feedstock Atlas basis version
Potato	Potato starch		Proximates	Dry Matter	831	g/kg FM	Online European Feedstock Atlas basis version

Sweets	Residue from production of sweets		Proximates	Dry Matter	868	g/kg FM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet, dried	Chips	Proximates	Dry Matter	295	g/kg FM	Online European Feedstock Atlas basis version
Sugar cane	Sugar cane molasses	Melasse	Proximates	Dry Matter	788	g/kg FM	Online European Feedstock Atlas basis version
Sugar cane	Sugar cane molasses	Chips, melasse	Proximates	Dry Matter	901	g/kg FM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet molasses residues		Proximates	Dry Matter	680	g/kg FM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet pulp, dried	Dried	Proximates	Dry Matter	900	g/kg FM	Online European Feedstock Atlas basis version

Sugar beet	Sugar beet pulp	Fresh	Proximates	Dry Matter	110	g/kg FM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet pulp	Silage	Proximates	Dry Matter	187	g/kg FM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet scraps		Proximates	Dry Matter	148	g/kg FM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet taproots		Proximates	Dry Matter	117	g/kg FM	Online European Feedstock Atlas basis version
Sugar	Sugar for feeding		Proximates	Dry Matter	986	g/kg FM	Online European Feedstock Atlas basis version
Coconut	Coconut cake/expeller		Proximates	Dry Matter	900	g/kg FM	Online European Feedstock Atlas basis version

Coconut	Coconut meal	Extraction meal	Proximates	Dry Matter	900	g/kg FM	Online European Feedstock Atlas basis version
Cotton	Cottonseed cake/expeller		Proximates	Dry Matter	909	g/kg FM	Online European Feedstock Atlas basis version
Cotton	Cottonseed extraction meal		Proximates	Dry Matter	900	g/kg FM	Online European Feedstock Atlas basis version
Flax/linseed	Flax cake/expeller		Proximates	Dry Matter	903	g/kg FM	Online European Feedstock Atlas basis version
Flax/linseed	Flax extraction meal		Proximates	Dry Matter	890	g/kg FM	Online European Feedstock Atlas basis version
Hemp	Hemp press cake	Fresh	Proximates	Dry Matter	894	g/kg FM	Online European Feedstock Atlas basis version

Corn	Maize germ cake/expeller		Proximates	Dry Matter	915	g/kg FM	Online European Feedstock Atlas basis version
Olive	Olive pulp		Proximates	Dry Matter	945	g/kg FM	Online European Feedstock Atlas basis version
Palm	Palm kernel cake/expeller		Proximates	Dry Matter	915	g/kg FM	Online European Feedstock Atlas basis version
Palm	Palm kernel meal	Extraction meal	Proximates	Dry Matter	886	g/kg FM	Online European Feedstock Atlas basis version
Nuts, unspecified	Nut cake/expeller	Peanut	Proximates	Dry Matter	918	g/kg FM	Online European Feedstock Atlas basis version
Nuts, unspecified	Nut extraction meal	Peanut	Proximates	Dry Matter	903	g/kg FM	Online European Feedstock Atlas basis version

Rape	Rapeseed		Proximates	Dry Matter	153	g/kg FM	Online European Feedstock Atlas basis version
Rape	Rapeseed cake/expeller		Proximates	Dry Matter	906	g/kg FM	Online European Feedstock Atlas basis version
Rape	Rapeseed meal	Extraction meal	Proximates	Dry Matter	887	g/kg FM	Online European Feedstock Atlas basis version
Safflower	Safflower meal	Extraction meal	Proximates	Dry Matter	910	g/kg FM	Online European Feedstock Atlas basis version
Sesame	Sesame meal	Extraction meal	Proximates	Dry Matter	910	g/kg FM	Online European Feedstock Atlas basis version
Soy	Soybean meal	Extraction meal	Proximates	Dry Matter	887	g/kg FM	Online European Feedstock Atlas basis version

Sunflower	Sunflower cake/expeller		Proximates	Dry Matter	912	g/kg FM	Online European Feedstock Atlas basis version
Sunflower	Sunflower meal	Extraction meal	Proximates	Dry Matter	896	g/kg FM	Online European Feedstock Atlas basis version
Sunflower	Sunflower peelings		Proximates	Dry Matter	903	g/kg FM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet leaves	Fresh, for feeding	Proximates	Dry Matter	170	g/kg FM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet leaves	Silage, for feeding	Proximates	Dry Matter	166	g/kg FM	Online European Feedstock Atlas basis version
Corn	Maize strip waste		Proximates	Dry Matter	274	g/kg FM	Online European Feedstock Atlas basis version

Rape	Rapeseed straw		Proximates	Dry Matter	860	g/kg FM	Online European Feedstock Atlas basis version
Rape	Rapeseed strip waste		Proximates	Dry Matter	901	g/kg FM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet leaves and tops	Silage	Proximates	Dry Matter	134	g/kg FM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet leaves	Silage	Proximates	Dry Matter	154	g/kg FM	Online European Feedstock Atlas basis version
Wheat	Wheat straw		Proximates	Dry Matter	860	g/kg FM	Online European Feedstock Atlas basis version
Wheat	Wheat strip waste		Proximates	Dry Matter	843	g/kg FM	Online European Feedstock Atlas basis version

Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Dry Matter	13	g/kg FM	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Dry Matter	10	g/kg FM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Proximates	Dry Matter	10.1	g/kg FM	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Proximates	Dry Matter	12	g/kg FM	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Dry Matter	9.5	g/kg FM	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Proximates	Dry Matter	35.9	g/kg FM	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Proximates	Dry Matter	35	g/kg FM	Utilization of fruit and vegetable wastes, FAO

Pineapple	Pineapple bran	Ananas comosus	Proximates	Dry Matter	9.9	g/kg FM	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet pulp	Beta vulgaris	Proximates	Dry Matter	10-15	g/kg FM	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Dry Matter	25.3	g/kg FM	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Dry Matter	9.4	g/kg FM	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Proximates	Dry Matter	12.6	g/kg FM	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Dry Matter	10.5	g/kg FM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Dry Matter	9.5	g/kg FM	Utilization of fruit and vegetable wastes, FAO

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Dry Matter	958.2	g/kg FM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Dry Matter	922.5	g/kg FM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Dry Matter	924.1	g/kg FM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Dry Matter	902.8	g/kg FM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Dry Matter	926.5	g/kg FM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Dry Matter	923.3	g/kg FM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Dry Matter	907.9	g/kg FM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Dry Matter	921.7	g/kg FM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Dry Matter	934.5	g/kg FM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Dry Matter	918.4	g/kg FM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Dry Matter	186	g/kg FM	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Orange	Bergamot peel		Proximates	Dry Matter	163	g/kg	Citrus by-products as ruminant feeds: A review

Grapefruit	Grapefruit pulp	Fresh	Proximates	Dry Matter	197	g/kg	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Mandarin, fresh	Proximates	Dry Matter	197	g/kg	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses	Condensed solubles	Proximates	Dry Matter	450	g/kg	Citrus by-products as ruminant feeds: A review
Distillery by-products, unspecified	Distillers solubles	Citrus molasses	Proximates	Dry Matter	520	g/kg	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp silage		Proximates	Dry Matter	220	g/kg	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Dry Matter	900	g/kg FM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried	Ammoniated	Proximates	Dry Matter	870	g/kg FM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Proximates	Dry Matter	900	g/kg FM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Proximates	Dry Matter	930	g/kg FM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Proximates	Dry Matter	890	g/kg FM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp	Wet	Proximates	Dry Matter	180	g/kg FM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus seed meal	Mechanical extract	Proximates	Dry Matter	880	g/kg	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus molasses	Ammoniated	Proximates	Dry Matter	610	g/kg	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp		Proximates	Dry Matter	183	g/kg FM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp silage		Proximates	Dry Matter	200	g/kg	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Proximates	Dry Matter	650	g/kg	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp		Proximates	Dry Matter	140	g/kg	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Proximates	Dry Matter	910	g/kg FM	Citrus by-products as ruminant feeds: A review

Lime	Lime pulp, dried		Proximates	Dry Matter	850	g/kg FM	Citrus by-products as ruminant feeds: A review
Orange	Orange		Proximates	Dry Matter	128	g/kg FM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Wet	Proximates	Dry Matter	250	g/kg	Citrus by-products as ruminant feeds: A review
Orange	Orange by-product, dried		Proximates	Dry Matter	906	g/kg FM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Proximates	Dry Matter	890	g/kg FM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp silage		Proximates	Dry Matter	113	g/kg	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp, dried	Tangerine	Proximates	Dry Matter	870	g/kg FM	Citrus by-products as ruminant feeds: A review
Distillery by-products, unspecified	Distillers solids	Barley	Proximates	Dry Matter	500	g/kg FM	Wet barley distillers solids as a protein source for growing pigs
Barley	Barley		Proximates	Dry Matter	873	g/kg FM	Wet barley distillers solids as a protein source for growing pigs
Soy	Soybean meal	Soyabean meal	Proximates	Dry Matter	888	g/kg FM	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Dry Matter	202	g/kg FM	Wet barley distillers solids as a protein source for growing pigs
Apple	Apple		Proximates	Dry Matter	0.171	g total solids/g	Cropgen database
Banana	Banana		Proximates	Dry Matter	0.128	g total solids/g	Cropgen database

Carrot	Carrot		Proximates	Dry Matter	0.135	g total solids/g	Cropgen database
Orange	Orange		Proximates	Dry Matter	0.226	g total solids/g	Cropgen database
Potato	Potato		Proximates	Dry Matter	0.19	g total solids/g	Cropgen database
Apple	Apple pomace	From juice making	Proximates	Dry Matter	55.02	In vitro digestibility (%)	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace	From puree making	Proximates	Dry Matter	65.01	In vitro digestibility (%)	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Dry Matter	950	g/kg	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Dry Matter	954	g/kg	Nutritive value of plantain and chicory for pigs

Distillers grain	Distillers grain	Wet corn mash solids	Proximates	Dry Matter	314	g/kg	Distillers grains as an energy source and effect of drying on protein availability
Distillers grain	Distillers corn stillage	Thin. Liquid from corn mash. Distilled, alcohol removed	Proximates	Dry Matter	50	g/kg	Distillers grains as an energy source and effect of drying on protein availability
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Proximates	Dry Matter	94.61	%	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Proximates	Dry Matter	93.67	%	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rape	Rape straw	490 fully ripe rape straw samples collected in China	Proximates	Dry Matter	95.52	%	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Proximates	Dry Matter	96.21	%	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Potato	Potato peel	A review of different publications	Proximates	Dry Matter	120-276	g/kg	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	A review of different publications	Proximates	Dry Matter	142-170	g/kg	A review of the utility of potato by-products as a feed resource for smallholder pig production

Potato	Potato peel	Fermented. A review of different publications	Proximates	Dry Matter	129	g/kg	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	Ensiled. A review of different publications	Proximates	Dry Matter	158-400	g/kg	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	Solid fermented. A review of different publications	Proximates	Dry Matter	648	g/kg	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp, dried	A review of different publications	Proximates	Dry Matter	870-888	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production

Palm	Palm oil mill effluent	Decanted	Proximates	Dry matter degradability (effective, k=6%)	36.8	%	Feedipedia
Palm	Palm oil mill effluent	Decanted	Proximates	Dry matter degradability, k=4%	35.7	%	Feedipedia
Wheat	Wheat	Silage. Location: centre	Proximates	Dry matter digestibility	621	g/kg DM	Changes during aerobic exposure of wheat silages
Wheat	Wheat	Silage. Location: wall	Proximates	Dry matter digestibility	598	g/kg DM	Changes during aerobic exposure of wheat silages
Wheat	Wheat	Silage. Location: shoulder	Proximates	Dry matter digestibility	472	g/kg DM	Changes during aerobic exposure of wheat silages
Wheat	Wheat	Silage. Location: SEM	Proximates	Dry matter digestibility	80	g/kg DM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: centre	Proximates	Dry matter digestibility	701	g/kg DM	Changes during aerobic exposure of wheat silages

Corn	Corn silage	Location: wall	Proximates	Dry matter digestibility	675	g/kg DM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: shoulder	Proximates	Dry matter digestibility	478	g/kg DM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: SEM	Proximates	Dry matter digestibility	80	g/kg DM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: centre	Proximates	Dry matter digestibility	600	g/kg DM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: wall	Proximates	Dry matter digestibility	607	g/kg DM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: shoulder	Proximates	Dry matter digestibility	497	g/kg DM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: SEM	Proximates	Dry matter digestibility	94	g/kg DM	Changes during aerobic exposure of wheat silages

Grape	Grape pomace	Skin and seeds, white grape	Proximates	Dry matter digestibility	38.97	MJ/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape pomace	Skin and seeds, red grape	Proximates	Dry matter digestibility	31.64	MJ/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Apple	Apple pomace		Proximates	Dry matter digestibility, in vitro	74.49	% DM	Apple pomace as a supplement to pasture for dairy cows in late lactation
Grape	Grape marc	Grape marc from Gonzlez-Byass	Proximates	Dry matter digestibility, in vitro	0.31	% DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape marc	Grape marc from Movialsa	Proximates	Dry matter digestibility, in vitro	0.34	% DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape vine shoot		Proximates	Dry matter digestibility, in vitro	0.3	% DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	White	Proximates	Dry matter digestibility, in vitro	0.75	% DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	Red	Proximates	Dry matter digestibility, in vitro	0.73	% DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Sherry	Proximates	Dry matter digestibility, in vitro	0.91	% DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc and lees		Proximates	Dry matter digestibility, in vitro	0.72	% DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Soy	Soybean meal	Soyabean meal	Proximates	Dry matter digestibility, in vitro	0.708	% DM	Wet barley distillers solids as a protein source for growing pigs

Distillery by-products, unspecified	Distillers solids		Proximates	Dry matter digestibility, in vitro	0.56	% DM	Wet barley distillers solids as a protein source for growing pigs
Palm	Palm press fibre	High oil	Proximates	Dry matter digestibility, pepsin	19.1	%	Feedipedia
Palm	Oil palm fronds, dried	Dried, Elaeis guineensis	Proximates	Dry matter digestibility, ruminants	35	%	Feedipedia
Palm	Oil palm fronds	Silage	Proximates	Dry matter digestibility, ruminants	44.3	%	Feedipedia
Sunflower	Sunflower hulls		Proximates	Dry matter digestibility, ruminants	18.2	%	Feedipedia
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Ellagitannins and Ellagic Acids	Ellagic acid	0.1	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Ellagitannins and Ellagic Acids	Ellagic acid	0.06	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Banana	Banana		Waste compounds	Elongation	2.5-3.7	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sugar cane	Sugar cane bagasse		Waste compounds	Elongation	1.1	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Energy	37	kcal/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013

Apple	Apple pomace, dried	Powder	Proximates	Energy	295	kcal/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Proximates	Energy	254	kcal/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Proximates	Energy	266	kcal/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Proximates	Energy	269	kcal/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Energy	157	kJ/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Beef	Cattle manure	Slurry. kJ/g total solids	Proximates	Energy	16.75	KJ/g	Co-digestion of source segregated domestic food waste to improve process stability

Food, unspecified	Food leftovers	Domestic food waste (UK). kJ/g total solids	Proximates	Energy	20.7	KJ/g	Co-digestion of source segregated domestic food waste to improve process stability
Apple	Apple pomace, dried	Dried	Proximates	Energy (Total Digestible Nutrients)	67	%	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Energy (Total Digestible Nutrients)	73.9	%	Wet brewers' grains for beef cattle
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (Total Digestible Nutrients)	78	% DM	2012FeedComp
Orange	Orange pulp, dried	Orange, dried	Proximates	Energy (Total Digestible Nutrients)	79	% DM	2012FeedComp
Citrus, unspecified	Citrus molasses		Proximates	Energy (Total Digestible Nutrients)	75	% DM	2012FeedComp
Tomatoes	Tomato pomace, dried	Dried	Proximates	Energy (Total Digestible Nutrients)	64	% DM	2012FeedComp
Rice	Rice hull		Proximates	Energy (Total Digestible Nutrients)	13	% DM	2012FeedComp

Rice	Rice mill byproduct		Proximates	Energy (Total Digestible Nutrients)	39	% DM	2012FeedComp
Poultry	Feather meal	Hydrolyzed	Proximates	Energy (Total Digestible Nutrients)	67	% DM	2012FeedComp
Barley	Barley grain screenings		Proximates	Energy (Total Digestible Nutrients)	71	% DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Energy (Total Digestible Nutrients)	85	% DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Proximates	Energy (Total Digestible Nutrients)	79	% DM	2012FeedComp
Grape	Grape pomace	Stemless	Proximates	Energy (Total Digestible Nutrients)	40	% DM	2012FeedComp
Distillers grain	Distillers grain	Wet	Proximates	Energy (Total Digestible Nutrients)	90	% DM	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Proximates	Energy (Total Digestible Nutrients)	86	% DM	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Proximates	Energy (Total Digestible Nutrients)	85	% DM	2012FeedComp

Nuts, unspecified	Nut hulls	Almond	Proximates	Energy (Total Digestible Nutrients)	56	% DM	2012FeedComp
Apple	Apple		Proximates	Energy (Total Digestible Nutrients)	70	% DM	2012FeedComp
Apple	Apple pomace	Wet	Proximates	Energy (Total Digestible Nutrients)	68	% DM	2012FeedComp
Banana	Banana		Proximates	Energy (Total Digestible Nutrients)	84	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Proximates	Energy (Total Digestible Nutrients)	77	% DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Proximates	Energy (Total Digestible Nutrients)	76	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Proximates	Energy (Total Digestible Nutrients)	77	% DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Proximates	Energy (Total Digestible Nutrients)	77	% DM	2012FeedComp
Sugar beet	Sugar beet root		Proximates	Energy (Total Digestible Nutrients)	80	% DM	2012FeedComp

Sugar beet	Sugar beet tops		Proximates	Energy (Total Digestible Nutrients)	58	% DM	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Proximates	Energy (Total Digestible Nutrients)	52	% DM	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Proximates	Energy (Total Digestible Nutrients)	66	% DM	2012FeedComp
Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Proximates	Energy (Total Digestible Nutrients)	16	% DM	2012FeedComp
Bread	Bread by product		Proximates	Energy (Total Digestible Nutrients)	90	% DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	Energy (Total Digestible Nutrients)	84	% DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Proximates	Energy (Total Digestible Nutrients)	79	% DM	2012FeedComp
Butter	Buttermilk, dried		Proximates	Energy (Total Digestible Nutrients)	88	% DM	2012FeedComp
Bread	Calcium carbonate		Proximates	Energy (Total Digestible Nutrients)	0	% DM	2012FeedComp

Carrot	Carrot pulp		Proximates	Energy (Total Digestible Nutrients)	62	% DM	2012FeedComp
Carrot	Carrot	Roots, fresh	Proximates	Energy (Total Digestible Nutrients)	83	% DM	2012FeedComp
Carrot	Carrot tops		Proximates	Energy (Total Digestible Nutrients)	73	% DM	2012FeedComp
Beef	Cattle manure, dried	Dried	Proximates	Energy (Total Digestible Nutrients)	38	% DM	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Proximates	Energy (Total Digestible Nutrients)	76	% DM	2012FeedComp
Coffee	Coffee grounds		Proximates	Energy (Total Digestible Nutrients)	20	% DM	2012FeedComp
Cotton	Cottonseed hulls		Proximates	Energy (Total Digestible Nutrients)	45	% DM	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Proximates	Energy (Total Digestible Nutrients)	77	% DM	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Proximates	Energy (Total Digestible Nutrients)	79	% DM	2012FeedComp

Crab	Crab waste meal		Proximates	Energy (Total Digestible Nutrients)	29	% DM	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Proximates	Energy (Total Digestible Nutrients)	81	% DM	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Proximates	Energy (Total Digestible Nutrients)	88	% DM	2012FeedComp
Crawfish	Crawfish waste meal		Proximates	Energy (Total Digestible Nutrients)	25	% DM	2012FeedComp
Distillers grain	Distillers grain	Barley	Proximates	Energy (Total Digestible Nutrients)	75	% DM	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Proximates	Energy (Total Digestible Nutrients)	99	% DM	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Proximates	Energy (Total Digestible Nutrients)	101	% DM	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Proximates	Energy (Total Digestible Nutrients)	98	% DM	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Proximates	Energy (Total Digestible Nutrients)	87	% DM	2012FeedComp

Distillers grain	Distillers corn stillage		Proximates	Energy (Total Digestible Nutrients)	92	% DM	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Proximates	Energy (Total Digestible Nutrients)	84	% DM	2012FeedComp
Fish, unspecified	Fish meal		Proximates	Energy (Total Digestible Nutrients)	74	% DM	2012FeedComp
Flax/linseed	Flax seed hulls		Proximates	Energy (Total Digestible Nutrients)	38	% DM	2012FeedComp
Hop	Hop leaves		Proximates	Energy (Total Digestible Nutrients)	49	% DM	2012FeedComp
Hop	Hop vine silage		Proximates	Energy (Total Digestible Nutrients)	53	% DM	2012FeedComp
Hop	Hops	Spent	Proximates	Energy (Total Digestible Nutrients)	35	% DM	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Proximates	Energy (Total Digestible Nutrients)	77	% DM	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Proximates	Energy (Total Digestible Nutrients)	82	% DM	2012FeedComp

Poultry	Meat meal	Swine/poultry	Proximates	Energy (Total Digestible Nutrients)	71	% DM	2012FeedComp
Sugar beet	Sugar beet molasses		Proximates	Energy (Total Digestible Nutrients)	75	% DM	2012FeedComp
Sugar cane	Sugar cane molasses		Proximates	Energy (Total Digestible Nutrients)	74	% DM	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Proximates	Energy (Total Digestible Nutrients)	74	% DM	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Proximates	Energy (Total Digestible Nutrients)	69	% DM	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Proximates	Energy (Total Digestible Nutrients)	22	% DM	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Proximates	Energy (Total Digestible Nutrients)	77	% DM	2012FeedComp
Nuts, unspecified	Nut skins	Peanut	Proximates	Energy (Total Digestible Nutrients)	0	% DM	2012FeedComp
Pineapple	Pineapple greenchop		Proximates	Energy (Total Digestible Nutrients)	47	% DM	2012FeedComp

Pineapple	Pineapple bran		Proximates	Energy (Total Digestible Nutrients)	71	% DM	2012FeedComp
Pineapple	Pineapple presscake		Proximates	Energy (Total Digestible Nutrients)	71	% DM	2012FeedComp
Potato	Potato vine silage		Proximates	Energy (Total Digestible Nutrients)	59	% DM	2012FeedComp
Potato	Potato	Cull	Proximates	Energy (Total Digestible Nutrients)	80	% DM	2012FeedComp
Potato	Potato waste	Wet	Proximates	Energy (Total Digestible Nutrients)	82	% DM	2012FeedComp
Potato	Potato waste, dried	Dried	Proximates	Energy (Total Digestible Nutrients)	85	% DM	2012FeedComp
Potato	Potato waste	Wet with lime	Proximates	Energy (Total Digestible Nutrients)	80	% DM	2012FeedComp
Potato	Potato waste	Filter cake	Proximates	Energy (Total Digestible Nutrients)	77	% DM	2012FeedComp
Poultry	Poultry by product meal		Proximates	Energy (Total Digestible Nutrients)	79	% DM	2012FeedComp

Poultry	Poultry manure, dried	Dried	Proximates	Energy (Total Digestible Nutrients)	38	% DM	2012FeedComp
Rice	Rice straw		Proximates	Energy (Total Digestible Nutrients)	40	% DM	2012FeedComp
Rice	Rice straw	Ammoniated	Proximates	Energy (Total Digestible Nutrients)	45	% DM	2012FeedComp
Rice	Rice grain		Proximates	Energy (Total Digestible Nutrients)	79	% DM	2012FeedComp
Rice	Rice polishings		Proximates	Energy (Total Digestible Nutrients)	90	% DM	2012FeedComp
Rice	Rice bran		Proximates	Energy (Total Digestible Nutrients)	71	% DM	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Proximates	Energy (Total Digestible Nutrients)	56	% DM	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Proximates	Energy (Total Digestible Nutrients)	75	% DM	2012FeedComp
Safflower	Safflower hulls		Proximates	Energy (Total Digestible Nutrients)	14	% DM	2012FeedComp

Shrimp	Shrimp waste meal		Proximates	Energy (Total Digestible Nutrients)	48	% DM	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Proximates	Energy (Total Digestible Nutrients)	65	% DM	2012FeedComp
Sunflower	Sunflower meal	With hulls	Proximates	Energy (Total Digestible Nutrients)	57	% DM	2012FeedComp
Sunflower	Sunflower seed hulls		Proximates	Energy (Total Digestible Nutrients)	40	% DM	2012FeedComp
Sugar cane	Sugar cane bagasse		Proximates	Energy (Total Digestible Nutrients)	39	% DM	2012FeedComp
Tomatoes	Tomato		Proximates	Energy (Total Digestible Nutrients)	69	% DM	2012FeedComp
Wheat	Wheat	Fresh, pasture	Proximates	Energy (Total Digestible Nutrients)	71	% DM	2012FeedComp
Wheat	Wheat hay		Proximates	Energy (Total Digestible Nutrients)	57	% DM	2012FeedComp
Wheat	Wheat silage		Proximates	Energy (Total Digestible Nutrients)	59	% DM	2012FeedComp

Wheat	Wheat straw		Proximates	Energy (Total Digestible Nutrients)	43	% DM	2012FeedComp
Wheat	Wheat straw	Ammoniated	Proximates	Energy (Total Digestible Nutrients)	50	% DM	2012FeedComp
Wheat	Wheat grain		Proximates	Energy (Total Digestible Nutrients)	88	% DM	2012FeedComp
Wheat	Wheat grain	Hard	Proximates	Energy (Total Digestible Nutrients)	88	% DM	2012FeedComp
Wheat	Wheat grain	Soft	Proximates	Energy (Total Digestible Nutrients)	88	% DM	2012FeedComp
Wheat	Wheat grain	Steam flaked	Proximates	Energy (Total Digestible Nutrients)	91	% DM	2012FeedComp
Wheat	Wheat grain	Sprouted	Proximates	Energy (Total Digestible Nutrients)	88	% DM	2012FeedComp
Wheat	Wheat bran		Proximates	Energy (Total Digestible Nutrients)	70	% DM	2012FeedComp
Wheat	Wheat middlings		Proximates	Energy (Total Digestible Nutrients)	80	% DM	2012FeedComp

Wheat	Wheat mill run		Proximates	Energy (Total Digestible Nutrients)	76	% DM	2012FeedComp
Wheat	Wheat shorts		Proximates	Energy (Total Digestible Nutrients)	78	% DM	2012FeedComp
Cheese	Whey, dried	Dried	Proximates	Energy (Total Digestible Nutrients)	82	% DM	2012FeedComp
Bakery	Bakery product, dried	Dried	Proximates	Energy (Total Digestible Nutrients)	90	% DM	2012FeedComp
Canola	Canola meal	Solv. Ext.	Proximates	Energy (Total Digestible Nutrients)	72	% DM	2012FeedComp
Cotton	Cottonseed	Whole	Proximates	Energy (Total Digestible Nutrients)	95	% DM	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Proximates	Energy (Total Digestible Nutrients)	95	% DM	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Proximates	Energy (Total Digestible Nutrients)	87	% DM	2012FeedComp
Grain, unspecified	Grain screenings		Proximates	Energy (Total Digestible Nutrients)	65	% DM	2012FeedComp

Grain, unspecified	Grain dust		Proximates	Energy (Total Digestible Nutrients)	73	% DM	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Proximates	Energy (Total Digestible Nutrients)	72	% DM	2012FeedComp
Milk	Milk, dried	Dry, skim	Proximates	Energy (Total Digestible Nutrients)	87	% DM	2012FeedComp
Distillery by-products, unspecified	Distillers solids	Wet	Waste compounds	Energy (gross) digestibility	85	%	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Energy (net) for gain	0.52	mcal/lb	Wet brewers' grains for beef cattle
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for growth	54	Mcal/cwt. DM	2012FeedComp
Cranberry	Cranberry pulp meal		Proximates	Energy (net) for growth	11	Mcal/cwt. DM	2012FeedComp

Orange	Orange pulp, dried		Proximates	Energy (net) for growth	55	Mcal/cwt. DM	2012FeedComp
Citrus, unspecified	Citrus molasses		Proximates	Energy (net) for growth	50	Mcal/cwt. DM	2012FeedComp
Tomatoes	Tomato pomace, dried	Dried	Proximates	Energy (net) for growth	36	Mcal/cwt. DM	2012FeedComp
Rice	Rice hull		Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Rice	Rice mill byproduct		Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Poultry	Feather meal	Hydrolyzed	Proximates	Energy (net) for growth	40	Mcal/cwt. DM	2012FeedComp
Barley	Barley grain screenings		Proximates	Energy (net) for growth	46	Mcal/cwt. DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Energy (net) for growth	62	Mcal/cwt. DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Proximates	Energy (net) for growth	55	Mcal/cwt. DM	2012FeedComp
Grape	Grape pomace	Stemless	Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Wet	Proximates	Energy (net) for growth	68	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Proximates	Energy (net) for growth	63	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Proximates	Energy (net) for growth	62	Mcal/cwt. DM	2012FeedComp

Nuts, unspecified	Nut hulls	Almond	Proximates	Energy (net) for growth	23	Mcal/cwt. DM	2012FeedComp
Apple	Apple		Proximates	Energy (net) for growth	44	Mcal/cwt. DM	2012FeedComp
Apple	Apple pomace	Wet	Proximates	Energy (net) for growth	41	Mcal/cwt. DM	2012FeedComp
Banana	Banana		Proximates	Energy (net) for growth	61	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Proximates	Energy (net) for growth	53	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Proximates	Energy (net) for growth	52	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Proximates	Energy (net) for growth	53	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Proximates	Energy (net) for growth	53	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet root		Proximates	Energy (net) for growth	56	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet tops		Proximates	Energy (net) for growth	26	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Proximates	Energy (net) for growth	16	Mcal/cwt. DM	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Proximates	Energy (net) for growth	38	Mcal/cwt. DM	2012FeedComp
Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp

Bread	Bread by product		Proximates	Energy (net) for growth	68	Mcal/cwt. DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	Energy (net) for growth	61	Mcal/cwt. DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Proximates	Energy (net) for growth	55	Mcal/cwt. DM	2012FeedComp
Butter	Buttermilk, dried		Proximates	Energy (net) for growth	65	Mcal/cwt. DM	2012FeedComp
Bread	Calcium carbonate		Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Carrot	Carrot pulp		Proximates	Energy (net) for growth	33	Mcal/cwt. DM	2012FeedComp
Carrot	Carrot	Roots, fresh	Proximates	Energy (net) for growth	60	Mcal/cwt. DM	2012FeedComp
Carrot	Carrot tops		Proximates	Energy (net) for growth	48	Mcal/cwt. DM	2012FeedComp
Beef	Cattle manure, dried	Dried	Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Proximates	Energy (net) for growth	52	Mcal/cwt. DM	2012FeedComp
Coffee	Coffee grounds		Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed hulls		Proximates	Energy (net) for growth	3	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Proximates	Energy (net) for growth	53	Mcal/cwt. DM	2012FeedComp

Cotton	Cottonseed meal	Mech. Ext. 41% CP	Proximates	Energy (net) for growth	55	Mcal/cwt. DM	2012FeedComp
Crab	Crab waste meal		Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Proximates	Energy (net) for growth	58	Mcal/cwt. DM	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Proximates	Energy (net) for growth	65	Mcal/cwt. DM	2012FeedComp
Crawfish	Crawfish waste meal		Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Barley	Proximates	Energy (net) for growth	50	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Proximates	Energy (net) for growth	75	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Proximates	Energy (net) for growth	77	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Proximates	Energy (net) for growth	76	Mcal/cwt. DM	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Proximates	Energy (net) for growth	64	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers corn stillage		Proximates	Energy (net) for growth	70	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Proximates	Energy (net) for growth	61	Mcal/cwt. DM	2012FeedComp
Fish, unspecified	Fish meal		Proximates	Energy (net) for growth	49	Mcal/cwt. DM	2012FeedComp

Flax/linseed	Flax seed hulls		Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Hop	Hop leaves		Proximates	Energy (net) for growth	11	Mcal/cwt. DM	2012FeedComp
Hop	Hop vine silage		Proximates	Energy (net) for growth	18	Mcal/cwt. DM	2012FeedComp
Hop	Hops	Spent	Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Proximates	Energy (net) for growth	53	Mcal/cwt. DM	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Proximates	Energy (net) for growth	59	Mcal/cwt. DM	2012FeedComp
Poultry	Meat meal	Swine/poultry	Proximates	Energy (net) for growth	46	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet molasses		Proximates	Energy (net) for growth	50	Mcal/cwt. DM	2012FeedComp
Sugar cane	Sugar cane molasses		Proximates	Energy (net) for growth	49	Mcal/cwt. DM	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Proximates	Energy (net) for growth	49	Mcal/cwt. DM	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Proximates	Energy (net) for growth	43	Mcal/cwt. DM	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Proximates	Energy (net) for growth	53	Mcal/cwt. DM	2012FeedComp

Nuts, unspecified	Nut skins	Peanut	Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Pineapple	Pineapple greenchop		Proximates	Energy (net) for growth	7	Mcal/cwt. DM	2012FeedComp
Pineapple	Pineapple bran		Proximates	Energy (net) for growth	46	Mcal/cwt. DM	2012FeedComp
Pineapple	Pineapple presscake		Proximates	Energy (net) for growth	46	Mcal/cwt. DM	2012FeedComp
Potato	Potato vine silage		Proximates	Energy (net) for growth	28	Mcal/cwt. DM	2012FeedComp
Potato	Potato	Cull	Proximates	Energy (net) for growth	56	Mcal/cwt. DM	2012FeedComp
Potato	Potato waste	Wet	Proximates	Energy (net) for growth	59	Mcal/cwt. DM	2012FeedComp
Potato	Potato waste, dried	Dried	Proximates	Energy (net) for growth	62	Mcal/cwt. DM	2012FeedComp
Potato	Potato waste	Wet with lime	Proximates	Energy (net) for growth	56	Mcal/cwt. DM	2012FeedComp
Potato	Potato waste	Filter cake	Proximates	Energy (net) for growth	53	Mcal/cwt. DM	2012FeedComp
Poultry	Poultry by product meal		Proximates	Energy (net) for growth	55	Mcal/cwt. DM	2012FeedComp
Poultry	Poultry manure, dried	Dried	Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Rice	Rice straw		Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Rice	Rice straw	Ammoniated	Proximates	Energy (net) for growth	3	Mcal/cwt. DM	2012FeedComp

Rice	Rice grain		Proximates	Energy (net) for growth	55	Mcal/cwt. DM	2012FeedComp
Rice	Rice polishings		Proximates	Energy (net) for growth	68	Mcal/cwt. DM	2012FeedComp
Rice	Rice bran		Proximates	Energy (net) for growth	46	Mcal/cwt. DM	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Proximates	Energy (net) for growth	23	Mcal/cwt. DM	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Proximates	Energy (net) for growth	50	Mcal/cwt. DM	2012FeedComp
Safflower	Safflower hulls		Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Shrimp	Shrimp waste meal		Proximates	Energy (net) for growth	9	Mcal/cwt. DM	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Proximates	Energy (net) for growth	37	Mcal/cwt. DM	2012FeedComp
Sunflower	Sunflower meal	With hulls	Proximates	Energy (net) for growth	25	Mcal/cwt. DM	2012FeedComp
Sunflower	Sunflower seed hulls		Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Sugar cane	Sugar cane bagasse		Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Tomatoes	Tomato		Proximates	Energy (net) for growth	43	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat	Fresh, pasture	Proximates	Energy (net) for growth	46	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat hay		Proximates	Energy (net) for growth	25	Mcal/cwt. DM	2012FeedComp

Wheat	Wheat silage		Proximates	Energy (net) for growth	28	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat straw		Proximates	Energy (net) for growth	0	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat straw	Ammoniated	Proximates	Energy (net) for growth	12	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain		Proximates	Energy (net) for growth	65	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain	Hard	Proximates	Energy (net) for growth	65	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain	Soft	Proximates	Energy (net) for growth	65	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain	Steam flaked	Proximates	Energy (net) for growth	69	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain	Sprouted	Proximates	Energy (net) for growth	65	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat bran		Proximates	Energy (net) for growth	44	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat middlings		Proximates	Energy (net) for growth	56	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat mill run		Proximates	Energy (net) for growth	52	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat shorts		Proximates	Energy (net) for growth	54	Mcal/cwt. DM	2012FeedComp
Cheese	Whey, dried	Dried	Proximates	Energy (net) for growth	59	Mcal/cwt. DM	2012FeedComp
Bakery	Bakery product, dried	Dried	Proximates	Energy (net) for growth	68	Mcal/cwt. DM	2012FeedComp

Canola	Canola meal	Solv. Ext.	Proximates	Energy (net) for growth	47	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed	Whole	Proximates	Energy (net) for growth	73	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Proximates	Energy (net) for growth	73	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Proximates	Energy (net) for growth	67	Mcal/cwt. DM	2012FeedComp
Grain, unspecified	Grain screenings		Proximates	Energy (net) for growth	37	Mcal/cwt. DM	2012FeedComp
Grain, unspecified	Grain dust		Proximates	Energy (net) for growth	48	Mcal/cwt. DM	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Proximates	Energy (net) for growth	47	Mcal/cwt. DM	2012FeedComp
Milk	Milk, dried	Dry, skim	Proximates	Energy (net) for growth	64	Mcal/cwt. DM	2012FeedComp
Orange	Orange pulp, dried	Sheep	Proximates	Energy (net) for growth	8.87	sheep, MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp silage		Proximates	Energy (net) for growth	6.02	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for growth	5.56	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried	Ammoniated	Proximates	Energy (net) for growth	5.90	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Proximates	Energy (net) for growth	4.52	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Proximates	Energy (net) for growth	5.23	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Proximates	Energy (net) for growth	5.02	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Energy (net) for growth	6.19	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp, dried	Ammoniated	Proximates	Energy (net) for growth	5.81	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp	Wet	Proximates	Energy (net) for growth	5.48	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus seed meal	Mechanical extract	Proximates	Energy (net) for growth	5.73	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses	Ammoniated	Proximates	Energy (net) for growth	4.81	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp silage		Proximates	Energy (net) for growth	5.19	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange	Fresh, whole	Proximates	Energy (net) for growth	5.19	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus meal, dried		Proximates	Energy (net) for growth	5.19	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for growth	5.23	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for growth	5.10	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Proximates	Energy (net) for growth	4.85	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Energy (net) for growth	5.19	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp		Proximates	Energy (net) for growth	6.65	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for growth	4.89	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp silage		Proximates	Energy (net) for growth	5.44	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Proximates	Energy (net) for growth	4.89	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp		Proximates	Energy (net) for growth	5.73	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Proximates	Energy (net) for growth	5.27	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Proximates	Energy (net) for growth	4.89	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Lime	Lime pulp, dried		Proximates	Energy (net) for growth	4.06	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange		Proximates	Energy (net) for growth	4.89	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Wet	Proximates	Energy (net) for growth	4.69	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange by-product, dried		Proximates	Energy (net) for growth	3.89	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Energy (net) for growth	4.98	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Proximates	Energy (net) for growth	4.22	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp silage		Proximates	Energy (net) for growth	3.22	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Tangerine	Proximates	Energy (net) for growth	5.06	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp silage		Proximates	Energy (net) for lactaction	7.49	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange	Fresh, whole	Proximates	Energy (net) for lactaction	7.49	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus meal, dried		Proximates	Energy (net) for lactaction	7.70	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for lactaction	7.36	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for lactaction	7.41	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp silage		Proximates	Energy (net) for lactaction	8.49	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for lactaction	8.03	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried	Ammoniated	Proximates	Energy (net) for lactaction	8.37	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Proximates	Energy (net) for lactaction	7.70	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp		Proximates	Energy (net) for lactaction	7.91	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp silage		Proximates	Energy (net) for lactaction	8.03	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Proximates	Energy (net) for lactaction	7.66	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange		Proximates	Energy (net) for lactaction	7.49	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp silage		Proximates	Energy (net) for lactaction	6.19	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Energy (net) for lactation	0.81	mcal/lb	Wet brewers' grains for beef cattle
Apple	Apple pomace, dried	Dried	Proximates	Energy (net) for lactation	68	Mcal/cwt.	2012FeedComp
Orange	Orange pulp, dried	Sheep	Proximates	Energy (net) for lactation	8.37	sheep, MJ/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus molasses		Proximates	Energy (net) for lactation	7.20	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Energy (net) for lactation	7.49	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Proximates	Energy (net) for lactation	7.07	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Proximates	Energy (net) for lactation	7.53	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Energy (net) for lactation	8.66	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Proximates	Energy (net) for lactation	6.69	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp	Wet	Proximates	Energy (net) for lactation	7.95	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus seed meal	Mechanical extract	Proximates	Energy (net) for lactation	8.20	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses	Ammoniated	Proximates	Energy (net) for lactation	7.32	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Proximates	Energy (net) for lactation	7.36	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp		Proximates	Energy (net) for lactation	8.20	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Proximates	Energy (net) for lactation	7.36	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Lime	Lime pulp, dried		Proximates	Energy (net) for lactation	6.65	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Wet	Proximates	Energy (net) for lactation	7.36	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange by-product, dried		Proximates	Energy (net) for lactation	6.74	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Proximates	Energy (net) for lactation	7.03	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Tangerine	Proximates	Energy (net) for lactation	7.66	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for lactation	80	Mcal/cwt. DM	2012FeedComp
Cranberry	Cranberry pulp meal		Proximates	Energy (net) for lactation	48	Mcal/cwt. DM	2012FeedComp

Orange	Orange pulp, dried		Proximates	Energy (net) for lactation	81	Mcal/cwt. DM	2012FeedComp
Citrus, unspecified	Citrus molasses		Proximates	Energy (net) for lactation	77	Mcal/cwt. DM	2012FeedComp
Tomatoes	Tomato pomace, dried	Dried	Proximates	Energy (net) for lactation	65	Mcal/cwt. DM	2012FeedComp
Rice	Rice hull		Proximates	Energy (net) for lactation	8	Mcal/cwt. DM	2012FeedComp
Rice	Rice mill byproduct		Proximates	Energy (net) for lactation	37	Mcal/cwt. DM	2012FeedComp
Poultry	Feather meal	Hydrolyzed	Proximates	Energy (net) for lactation	68	Mcal/cwt. DM	2012FeedComp
Barley	Barley grain screenings		Proximates	Energy (net) for lactation	73	Mcal/cwt. DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Energy (net) for lactation	88	Mcal/cwt. DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Proximates	Energy (net) for lactation	81	Mcal/cwt. DM	2012FeedComp
Grape	Grape pomace	Stemless	Proximates	Energy (net) for lactation	38	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Wet	Proximates	Energy (net) for lactation	94	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Proximates	Energy (net) for lactation	89	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Proximates	Energy (net) for lactation	88	Mcal/cwt. DM	2012FeedComp

Nuts, unspecified	Nut hulls	Almond	Proximates	Energy (net) for lactation	56	Mcal/cwt. DM	2012FeedComp
Apple	Apple		Proximates	Energy (net) for lactation	71	Mcal/cwt. DM	2012FeedComp
Apple	Apple pomace	Wet	Proximates	Energy (net) for lactation	69	Mcal/cwt. DM	2012FeedComp
Banana	Banana		Proximates	Energy (net) for lactation	87	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Proximates	Energy (net) for lactation	79	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Proximates	Energy (net) for lactation	78	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Proximates	Energy (net) for lactation	79	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Proximates	Energy (net) for lactation	79	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet root		Proximates	Energy (net) for lactation	83	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet tops		Proximates	Energy (net) for lactation	58	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Proximates	Energy (net) for lactation	51	Mcal/cwt. DM	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Proximates	Energy (net) for lactation	67	Mcal/cwt. DM	2012FeedComp
Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Proximates	Energy (net) for lactation	11	Mcal/cwt. DM	2012FeedComp

Bread	Bread by product		Proximates	Energy (net) for lactation	94	Mcal/cwt. DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	Energy (net) for lactation	87	Mcal/cwt. DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Proximates	Energy (net) for lactation	81	Mcal/cwt. DM	2012FeedComp
Butter	Buttermilk, dried		Proximates	Energy (net) for lactation	91	Mcal/cwt. DM	2012FeedComp
Bread	Calcium carbonate		Proximates	Energy (net) for lactation	0	Mcal/cwt. DM	2012FeedComp
Carrot	Carrot pulp		Proximates	Energy (net) for lactation	63	Mcal/cwt. DM	2012FeedComp
Carrot	Carrot	Roots, fresh	Proximates	Energy (net) for lactation	86	Mcal/cwt. DM	2012FeedComp
Carrot	Carrot tops		Proximates	Energy (net) for lactation	75	Mcal/cwt. DM	2012FeedComp
Beef	Cattle manure, dried	Dried	Proximates	Energy (net) for lactation	36	Mcal/cwt. DM	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Proximates	Energy (net) for lactation	78	Mcal/cwt. DM	2012FeedComp
Coffee	Coffee grounds		Proximates	Energy (net) for lactation	16	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed hulls		Proximates	Energy (net) for lactation	44	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Proximates	Energy (net) for lactation	79	Mcal/cwt. DM	2012FeedComp

Cotton	Cottonseed meal	Mech. Ext. 41% CP	Proximates	Energy (net) for lactation	81	Mcal/cwt. DM	2012FeedComp
Crab	Crab waste meal		Proximates	Energy (net) for lactation	30	Mcal/cwt. DM	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Proximates	Energy (net) for lactation	84	Mcal/cwt. DM	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Proximates	Energy (net) for lactation	91	Mcal/cwt. DM	2012FeedComp
Crawfish	Crawfish waste meal		Proximates	Energy (net) for lactation	29	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Barley	Proximates	Energy (net) for lactation	77	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Proximates	Energy (net) for lactation	105	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Proximates	Energy (net) for lactation	108	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Proximates	Energy (net) for lactation	103	Mcal/cwt. DM	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Proximates	Energy (net) for lactation	90	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers corn stillage		Proximates	Energy (net) for lactation	96	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Proximates	Energy (net) for lactation	87	Mcal/cwt. DM	2012FeedComp
Fish, unspecified	Fish meal		Proximates	Energy (net) for lactation	76	Mcal/cwt. DM	2012FeedComp

Flax/linseed	Flax seed hulls		Proximates	Energy (net) for lactation	36	Mcal/cwt. DM	2012FeedComp
Hop	Hop leaves		Proximates	Energy (net) for lactation	48	Mcal/cwt. DM	2012FeedComp
Hop	Hop vine silage		Proximates	Energy (net) for lactation	53	Mcal/cwt. DM	2012FeedComp
Hop	Hops	Spent	Proximates	Energy (net) for lactation	33	Mcal/cwt. DM	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Proximates	Energy (net) for lactation	79	Mcal/cwt. DM	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Proximates	Energy (net) for lactation	85	Mcal/cwt. DM	2012FeedComp
Poultry	Meat meal	Swine/poultry	Proximates	Energy (net) for lactation	73	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet molasses		Proximates	Energy (net) for lactation	77	Mcal/cwt. DM	2012FeedComp
Sugar cane	Sugar cane molasses		Proximates	Energy (net) for lactation	76	Mcal/cwt. DM	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Proximates	Energy (net) for lactation	76	Mcal/cwt. DM	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Proximates	Energy (net) for lactation	70	Mcal/cwt. DM	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Proximates	Energy (net) for lactation	18	Mcal/cwt. DM	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Proximates	Energy (net) for lactation	79	Mcal/cwt. DM	2012FeedComp

Nuts, unspecified	Nut skins	Peanut	Proximates	Energy (net) for lactation	0	Mcal/cwt. DM	2012FeedComp
Pineapple	Pineapple greenchop		Proximates	Energy (net) for lactation	46	Mcal/cwt. DM	2012FeedComp
Pineapple	Pineapple bran		Proximates	Energy (net) for lactation	73	Mcal/cwt. DM	2012FeedComp
Pineapple	Pineapple presscake		Proximates	Energy (net) for lactation	73	Mcal/cwt. DM	2012FeedComp
Potato	Potato vine silage		Proximates	Energy (net) for lactation	59	Mcal/cwt. DM	2012FeedComp
Potato	Potato	Cull	Proximates	Energy (net) for lactation	83	Mcal/cwt. DM	2012FeedComp
Potato	Potato waste	Wet	Proximates	Energy (net) for lactation	85	Mcal/cwt. DM	2012FeedComp
Potato	Potato waste, dried	Dried	Proximates	Energy (net) for lactation	88	Mcal/cwt. DM	2012FeedComp
Potato	Potato waste	Wet with lime	Proximates	Energy (net) for lactation	83	Mcal/cwt. DM	2012FeedComp
Potato	Potato waste	Filter cake	Proximates	Energy (net) for lactation	79	Mcal/cwt. DM	2012FeedComp
Poultry	Poultry by product meal		Proximates	Energy (net) for lactation	81	Mcal/cwt. DM	2012FeedComp
Poultry	Poultry manure, dried	Dried	Proximates	Energy (net) for lactation	36	Mcal/cwt. DM	2012FeedComp
Rice	Rice straw		Proximates	Energy (net) for lactation	38	Mcal/cwt. DM	2012FeedComp
Rice	Rice straw	Ammoniated	Proximates	Energy (net) for lactation	44	Mcal/cwt. DM	2012FeedComp

Rice	Rice grain		Proximates	Energy (net) for lactation	81	Mcal/cwt. DM	2012FeedComp
Rice	Rice polishings		Proximates	Energy (net) for lactation	94	Mcal/cwt. DM	2012FeedComp
Rice	Rice bran		Proximates	Energy (net) for lactation	73	Mcal/cwt. DM	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Proximates	Energy (net) for lactation	56	Mcal/cwt. DM	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Proximates	Energy (net) for lactation	77	Mcal/cwt. DM	2012FeedComp
Safflower	Safflower hulls		Proximates	Energy (net) for lactation	34	Mcal/cwt. DM	2012FeedComp
Shrimp	Shrimp waste meal		Proximates	Energy (net) for lactation	47	Mcal/cwt. DM	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Proximates	Energy (net) for lactation	66	Mcal/cwt. DM	2012FeedComp
Sunflower	Sunflower meal	With hulls	Proximates	Energy (net) for lactation	57	Mcal/cwt. DM	2012FeedComp
Sunflower	Sunflower seed hulls		Proximates	Energy (net) for lactation	38	Mcal/cwt. DM	2012FeedComp
Sugar cane	Sugar cane bagasse		Proximates	Energy (net) for lactation	37	Mcal/cwt. DM	2012FeedComp
Tomatoes	Tomato		Proximates	Energy (net) for lactation	70	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat	Fresh, pasture	Proximates	Energy (net) for lactation	73	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat hay		Proximates	Energy (net) for lactation	57	Mcal/cwt. DM	2012FeedComp

Wheat	Wheat silage		Proximates	Energy (net) for lactation	59	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat straw		Proximates	Energy (net) for lactation	41	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat straw	Ammoniated	Proximates	Energy (net) for lactation	49	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain		Proximates	Energy (net) for lactation	91	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain	Hard	Proximates	Energy (net) for lactation	91	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain	Soft	Proximates	Energy (net) for lactation	91	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain	Steam flaked	Proximates	Energy (net) for lactation	95	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain	Sprouted	Proximates	Energy (net) for lactation	91	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat bran		Proximates	Energy (net) for lactation	71	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat middlings		Proximates	Energy (net) for lactation	83	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat mill run		Proximates	Energy (net) for lactation	78	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat shorts		Proximates	Energy (net) for lactation	80	Mcal/cwt. DM	2012FeedComp
Cheese	Whey, dried	Dried	Proximates	Energy (net) for lactation	85	Mcal/cwt. DM	2012FeedComp
Bakery	Bakery product, dried	Dried	Proximates	Energy (net) for lactation	94	Mcal/cwt. DM	2012FeedComp

Canola	Canola meal	Solv. Ext.	Proximates	Energy (net) for lactation	74	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed	Whole	Proximates	Energy (net) for lactation	99	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Proximates	Energy (net) for lactation	99	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Proximates	Energy (net) for lactation	91	Mcal/cwt. DM	2012FeedComp
Grain, unspecified	Grain screenings		Proximates	Energy (net) for lactation	66	Mcal/cwt. DM	2012FeedComp
Grain, unspecified	Grain dust		Proximates	Energy (net) for lactation	75	Mcal/cwt. DM	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Proximates	Energy (net) for lactation	74	Mcal/cwt. DM	2012FeedComp
Milk	Milk, dried	Dry, skim	Proximates	Energy (net) for lactation	90	Mcal/cwt. DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Energy (net) for maintenance	0.81	mcal/lb	Wet brewers' grains for beef cattle
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for maintenance	83	Mcal/cwt. DM	2012FeedComp
Cranberry	Cranberry pulp meal		Proximates	Energy (net) for maintenance	49	Mcal/cwt. DM	2012FeedComp

Orange	Orange pulp, dried		Proximates	Energy (net) for maintenance	85	Mcal/cwt. DM	2012FeedComp
Citrus, unspecified	Citrus molasses		Proximates	Energy (net) for maintenance	79	Mcal/cwt. DM	2012FeedComp
Tomatoes	Tomato pomace, dried	Dried	Proximates	Energy (net) for maintenance	65	Mcal/cwt. DM	2012FeedComp
Rice	Rice hull		Proximates	Energy (net) for maintenance	35	Mcal/cwt. DM	2012FeedComp
Rice	Rice mill byproduct		Proximates	Energy (net) for maintenance	41	Mcal/cwt. DM	2012FeedComp
Poultry	Feather meal	Hydrolyzed	Proximates	Energy (net) for maintenance	69	Mcal/cwt. DM	2012FeedComp
Barley	Barley grain screenings		Proximates	Energy (net) for maintenance	74	Mcal/cwt. DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Energy (net) for maintenance	93	Mcal/cwt. DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Proximates	Energy (net) for maintenance	85	Mcal/cwt. DM	2012FeedComp

Grape	Grape pomace	Stemless	Proximates	Energy (net) for maintenance	42	Mcal/cwt. DM	2012FeedComp
Nuts, unspecified	Nut hulls	Almond	Proximates	Energy (net) for maintenance	56	Mcal/cwt. DM	2012FeedComp
Apple	Apple		Proximates	Energy (net) for maintenance	73	Mcal/cwt. DM	2012FeedComp
Apple	Apple pomace	Wet	Proximates	Energy (net) for maintenance	70	Mcal/cwt. DM	2012FeedComp
Banana	Banana		Proximates	Energy (net) for maintenance	92	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Proximates	Energy (net) for maintenance	82	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Proximates	Energy (net) for maintenance	81	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Proximates	Energy (net) for maintenance	82	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Proximates	Energy (net) for maintenance	82	Mcal/cwt. DM	2012FeedComp

Sugar beet	Sugar beet root		Proximates	Energy (net) for maintenance	86	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet tops		Proximates	Energy (net) for maintenance	58	Mcal/cwt. DM	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Proximates	Energy (net) for maintenance	52	Mcal/cwt. DM	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Proximates	Energy (net) for maintenance	68	Mcal/cwt. DM	2012FeedComp
Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Proximates	Energy (net) for maintenance	27	Mcal/cwt. DM	2012FeedComp
Bread	Bread by product		Proximates	Energy (net) for maintenance	100	Mcal/cwt. DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	Energy (net) for maintenance	92	Mcal/cwt. DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Proximates	Energy (net) for maintenance	85	Mcal/cwt. DM	2012FeedComp
Butter	Buttermilk, dried		Proximates	Energy (net) for maintenance	98	Mcal/cwt. DM	2012FeedComp

Bread	Calcium carbonate		Proximates	Energy (net) for maintenance	0	Mcal/cwt. DM	2012FeedComp
Carrot	Carrot pulp		Proximates	Energy (net) for maintenance	63	Mcal/cwt. DM	2012FeedComp
Carrot	Carrot	Roots, fresh	Proximates	Energy (net) for maintenance	90	Mcal/cwt. DM	2012FeedComp
Carrot	Carrot tops		Proximates	Energy (net) for maintenance	77	Mcal/cwt. DM	2012FeedComp
Beef	Cattle manure, dried	Dried	Proximates	Energy (net) for maintenance	40	Mcal/cwt. DM	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Proximates	Energy (net) for maintenance	81	Mcal/cwt. DM	2012FeedComp
Coffee	Coffee grounds		Proximates	Energy (net) for maintenance	36	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed hulls		Proximates	Energy (net) for maintenance	45	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Proximates	Energy (net) for maintenance	82	Mcal/cwt. DM	2012FeedComp

Cotton	Cottonseed meal	Mech. Ext. 41% CP	Proximates	Energy (net) for maintenance	85	Mcal/cwt. DM	2012FeedComp
Crab	Crab waste meal		Proximates	Energy (net) for maintenance	37	Mcal/cwt. DM	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Proximates	Energy (net) for maintenance	88	Mcal/cwt. DM	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Proximates	Energy (net) for maintenance	98	Mcal/cwt. DM	2012FeedComp
Crawfish	Crawfish waste meal		Proximates	Energy (net) for maintenance	36	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Barley	Proximates	Energy (net) for maintenance	79	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Proximates	Energy (net) for maintenance	113	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Proximates	Energy (net) for maintenance	115	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Proximates	Energy (net) for maintenance	111	Mcal/cwt. DM	2012FeedComp

Distillery by-products, unspecified	Distillers solubles, dried	Dried	Proximates	Energy (net) for maintenance	96	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers corn stillage		Proximates	Energy (net) for maintenance	103	Mcal/cwt. DM	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Proximates	Energy (net) for maintenance	92	Mcal/cwt. DM	2012FeedComp
Fish, unspecified	Fish meal		Proximates	Energy (net) for maintenance	78	Mcal/cwt. DM	2012FeedComp
Flax/linseed	Flax seed hulls		Proximates	Energy (net) for maintenance	40	Mcal/cwt. DM	2012FeedComp
Hop	Hop leaves		Proximates	Energy (net) for maintenance	49	Mcal/cwt. DM	2012FeedComp
Hop	Hop vine silage		Proximates	Energy (net) for maintenance	53	Mcal/cwt. DM	2012FeedComp
Hop	Hops	Spent	Proximates	Energy (net) for maintenance	39	Mcal/cwt. DM	2012FeedComp
Poultry	Meat meal	Swine/poultry	Proximates	Energy (net) for maintenance	74	Mcal/cwt. DM	2012FeedComp

Sugar beet	Sugar beet molasses		Proximates	Energy (net) for maintenance	79	Mcal/cwt. DM	2012FeedComp
Sugar cane	Sugar cane molasses		Proximates	Energy (net) for maintenance	78	Mcal/cwt. DM	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Proximates	Energy (net) for maintenance	78	Mcal/cwt. DM	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Proximates	Energy (net) for maintenance	71	Mcal/cwt. DM	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Proximates	Energy (net) for maintenance	36	Mcal/cwt. DM	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Proximates	Energy (net) for maintenance	82	Mcal/cwt. DM	2012FeedComp
Nuts, unspecified	Nut skins	Peanut	Proximates	Energy (net) for maintenance	0	Mcal/cwt. DM	2012FeedComp
Pineapple	Pineapple greenchop		Proximates	Energy (net) for maintenance	47	Mcal/cwt. DM	2012FeedComp
Pineapple	Pineapple bran		Proximates	Energy (net) for maintenance	74	Mcal/cwt. DM	2012FeedComp

Pineapple	Pineapple presscake		Proximates	Energy (net) for maintenance	74	Mcal/cwt. DM	2012FeedComp
Potato	Potato vine silage		Proximates	Energy (net) for maintenance	59	Mcal/cwt. DM	2012FeedComp
Potato	Potato	Cull	Proximates	Energy (net) for maintenance	86	Mcal/cwt. DM	2012FeedComp
Potato	Potato waste	Wet	Proximates	Energy (net) for maintenance	89	Mcal/cwt. DM	2012FeedComp
Potato	Potato waste, dried	Dried	Proximates	Energy (net) for maintenance	93	Mcal/cwt. DM	2012FeedComp
Potato	Potato waste	Wet with lime	Proximates	Energy (net) for maintenance	86	Mcal/cwt. DM	2012FeedComp
Potato	Potato waste	Filter cake	Proximates	Energy (net) for maintenance	82	Mcal/cwt. DM	2012FeedComp
Poultry	Poultry by product meal		Proximates	Energy (net) for maintenance	85	Mcal/cwt. DM	2012FeedComp
Poultry	Poultry manure, dried	Dried	Proximates	Energy (net) for maintenance	40	Mcal/cwt. DM	2012FeedComp

Rice	Rice straw		Proximates	Energy (net) for maintenance	42	Mcal/cwt. DM	2012FeedComp
Rice	Rice straw	Ammoniated	Proximates	Energy (net) for maintenance	45	Mcal/cwt. DM	2012FeedComp
Rice	Rice grain		Proximates	Energy (net) for maintenance	85	Mcal/cwt. DM	2012FeedComp
Rice	Rice polishings		Proximates	Energy (net) for maintenance	100	Mcal/cwt. DM	2012FeedComp
Rice	Rice bran		Proximates	Energy (net) for maintenance	74	Mcal/cwt. DM	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Proximates	Energy (net) for maintenance	56	Mcal/cwt. DM	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Proximates	Energy (net) for maintenance	79	Mcal/cwt. DM	2012FeedComp
Safflower	Safflower hulls		Proximates	Energy (net) for maintenance	35	Mcal/cwt. DM	2012FeedComp
Shrimp	Shrimp waste meal		Proximates	Energy (net) for maintenance	48	Mcal/cwt. DM	2012FeedComp

Sunflower	Sunflower meal	Solv. Ext.	Proximates	Energy (net) for maintenance	66	Mcal/cwt. DM	2012FeedComp
Sunflower	Sunflower meal	With hulls	Proximates	Energy (net) for maintenance	57	Mcal/cwt. DM	2012FeedComp
Sunflower	Sunflower seed hulls		Proximates	Energy (net) for maintenance	42	Mcal/cwt. DM	2012FeedComp
Sugar cane	Sugar cane bagasse		Proximates	Energy (net) for maintenance	41	Mcal/cwt. DM	2012FeedComp
Tomatoes	Tomato		Proximates	Energy (net) for maintenance	71	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat	Fresh, pasture	Proximates	Energy (net) for maintenance	74	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat hay		Proximates	Energy (net) for maintenance	57	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat silage		Proximates	Energy (net) for maintenance	59	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat straw		Proximates	Energy (net) for maintenance	44	Mcal/cwt. DM	2012FeedComp

Wheat	Wheat straw	Ammoniated	Proximates	Energy (net) for maintenance	50	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain		Proximates	Energy (net) for maintenance	98	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain	Hard	Proximates	Energy (net) for maintenance	98	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain	Soft	Proximates	Energy (net) for maintenance	98	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain	Steam flaked	Proximates	Energy (net) for maintenance	102	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat grain	Sprouted	Proximates	Energy (net) for maintenance	98	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat bran		Proximates	Energy (net) for maintenance	73	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat middlings		Proximates	Energy (net) for maintenance	86	Mcal/cwt. DM	2012FeedComp
Wheat	Wheat mill run		Proximates	Energy (net) for maintenance	81	Mcal/cwt. DM	2012FeedComp

Wheat	Wheat shorts		Proximates	Energy (net) for maintenance	83	Mcal/cwt. DM	2012FeedComp
Cheese	Whey, dried	Dried	Proximates	Energy (net) for maintenance	89	Mcal/cwt. DM	2012FeedComp
Bakery	Bakery product, dried	Dried	Proximates	Energy (net) for maintenance	100	Mcal/cwt. DM	2012FeedComp
Canola	Canola meal	Solv. Ext.	Proximates	Energy (net) for maintenance	75	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed	Whole	Proximates	Energy (net) for maintenance	107	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Proximates	Energy (net) for maintenance	107	Mcal/cwt. DM	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Proximates	Energy (net) for maintenance	98	Mcal/cwt. DM	2012FeedComp
Grain, unspecified	Grain screenings		Proximates	Energy (net) for maintenance	66	Mcal/cwt. DM	2012FeedComp
Grain, unspecified	Grain dust		Proximates	Energy (net) for maintenance	77	Mcal/cwt. DM	2012FeedComp

Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Proximates	Energy (net) for maintenance	75	Mcal/cwt. DM	2012FeedComp
Milk	Milk, dried	Dry, skim	Proximates	Energy (net) for maintenance	96	Mcal/cwt. DM	2012FeedComp
Orange	Orange pulp, dried	Sheep	Proximates	Energy (net) for maintenance	10.00	sheep, MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp silage		Proximates	Energy (net) for maintenance	8.83	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for maintenance	8.28	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried	Ammoniated	Proximates	Energy (net) for maintenance	8.70	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus molasses		Proximates	Energy (net) for maintenance	7.11	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Proximates	Energy (net) for maintenance	7.86	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Proximates	Energy (net) for maintenance	7.61	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Energy (net) for maintenance	9.04	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Proximates	Energy (net) for maintenance	8.79	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp	Wet	Proximates	Energy (net) for maintenance	8.16	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus seed meal	Mechanical extract	Proximates	Energy (net) for maintenance	8.49	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses	Ammoniated	Proximates	Energy (net) for maintenance	7.40	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp silage		Proximates	Energy (net) for maintenance	7.86	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange	Fresh, whole	Proximates	Energy (net) for maintenance	7.86	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus meal, dried		Proximates	Energy (net) for maintenance	7.86	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for maintenance	7.91	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for maintenance	7.78	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Proximates	Energy (net) for maintenance	7.49	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Energy (net) for maintenance	7.86	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp		Proximates	Energy (net) for maintenance	8.28	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy (net) for maintenance	7.36	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp silage		Proximates	Energy (net) for maintenance	8.20	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus molasses		Proximates	Energy (net) for maintenance	7.36	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp		Proximates	Energy (net) for maintenance	8.58	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Proximates	Energy (net) for maintenance	7.82	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Proximates	Energy (net) for maintenance	7.49	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Lime	Lime pulp, dried		Proximates	Energy (net) for maintenance	6.65	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange		Proximates	Energy (net) for maintenance	7.74	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp	Wet	Proximates	Energy (net) for maintenance	7.66	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange by-product, dried		Proximates	Energy (net) for maintenance	6.74	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Energy (net) for maintenance	7.49	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Proximates	Energy (net) for maintenance	7.11	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp silage		Proximates	Energy (net) for maintenance	6.11	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Tangerine	Proximates	Energy (net) for maintenance	8.03	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Rice	Rice straw		Proximates	Energy digestibility, growing pig	35	%	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Energy digestibility, growing pig	36.7	%	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Energy digestibility, growing pig	52.4	%	Feedipedia
Sugar cane	Sugar cane leaves	Fresh	Proximates	Energy digestibility, growing pig	37.2	%	Feedipedia
Sugar cane	Sugar cane leaves, dried	Dry	Proximates	Energy digestibility, growing pig	30.7	%	Feedipedia
Wheat	Triticale grain		Proximates	Energy digestibility, growing pig	86.2	%	Feedipedia
Wheat	Triticale straw		Proximates	Energy digestibility, growing pig	16.1	%	Feedipedia
Wheat	Wheat straw		Proximates	Energy digestibility, growing pig	12.3	%	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Energy digestibility, growing pig	72	%	Feedipedia

Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Energy digestibility, growing pig	68.4	%	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Energy digestibility, growing pig	89.8	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Energy digestibility, growing pig	53.7	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Energy digestibility, growing pig	53.9	%	Feedipedia
Rice	Rice grain	Polished	Proximates	Energy digestibility, growing pig	89.5	%	Feedipedia
Rice	Rice grain	Polished, parboiled	Proximates	Energy digestibility, growing pig	89.8	%	Feedipedia
Rice	Rice grain	Brown	Proximates	Energy digestibility, growing pig	95.5	%	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Energy digestibility, growing pig	61	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Energy digestibility, growing pig	76.4	%	Feedipedia

Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Energy digestibility, growing pig	79.5	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Energy digestibility, growing pig	73.7	%	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Energy digestibility, growing pig	79.5	%	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Energy digestibility, growing pig	83.7	%	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Energy digestibility, growing pig	76.6	%	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Energy digestibility, growing pig	64.5	%	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Energy digestibility, growing pig	45.6	%	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Energy digestibility, growing pig	74.8	%	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Energy digestibility, growing pig	66.8	%	Feedipedia

Rice	Rice bran	Defatted, fibre >20%	Proximates	Energy digestibility, growing pig	41.7	%	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Energy digestibility, growing pig	74.5	%	Feedipedia
Sorghum	Sorghum bran and milling offal		Proximates	Energy digestibility, growing pig	80.1	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Energy digestibility, growing pig	61	%	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Energy digestibility, growing pig	66.4	%	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Energy digestibility, growing pig	81.6	%	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Energy digestibility, growing pig	76.1	%	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Energy digestibility, growing pig	85.7	%	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Energy digestibility, growing pig	84.3	%	Feedipedia

Sorghum	Sorghum grain	Low tannin	Proximates	Energy digestibility, growing pig	86.7	%	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Energy digestibility, growing pig	85.2	%	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Energy digestibility, growing pig	85.5	%	Feedipedia
Wheat	Wheat bran		Proximates	Energy digestibility, growing pig	57.1	%	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Energy digestibility, growing pig	67.6	%	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Energy digestibility, growing pig	74.9	%	Feedipedia
Wheat	Wheat germs		Proximates	Energy digestibility, growing pig	83.8	%	Feedipedia
Wheat	Wheat grain		Proximates	Energy digestibility, growing pig	87.4	%	Feedipedia
Wheat	Wheat screenings		Proximates	Energy digestibility, growing pig	80.3	%	Feedipedia

Nuts, unspecified	Nut kernels	Almond	Proximates	Energy digestibility, growing pig	86.2	%	Feedipedia
Nuts, unspecified	Nut oil meal	Almond, dehulled, mechanical extraction	Proximates	Energy digestibility, growing pig	53.2	%	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Energy digestibility, growing pig	84.3	%	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Proximates	Energy digestibility, growing pig	88.7	%	Feedipedia
Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Energy digestibility, growing pig	46.7	%	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Energy digestibility, growing pig	39.4	%	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Energy digestibility, growing pig	19.6	%	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Energy digestibility, growing pig	61	%	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Energy digestibility, growing pig	44.1	%	Feedipedia

Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Energy digestibility, growing pig	55.5	%	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Energy digestibility, growing pig	52.7	%	Feedipedia
Coconut	Coconut copra	Fresh	Proximates	Energy digestibility, growing pig	84.4	%	Feedipedia
Coconut	Coconut water		Proximates	Energy digestibility, growing pig	79.9	%	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Energy digestibility, growing pig	69.8	%	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Energy digestibility, growing pig	64	%	Feedipedia
Flax/linseed	Linseed meal		Proximates	Energy digestibility, growing pig	76	%	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Energy digestibility, growing pig	74.9	%	Feedipedia
Flax/linseed	Linseeds		Proximates	Energy digestibility, growing pig	77.3	%	Feedipedia

Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Energy digestibility, growing pig	73.5	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Energy digestibility, growing pig	73.9	%	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Energy digestibility, growing pig	58.5	%	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Energy digestibility, growing pig	74	%	Feedipedia
Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Proximates	Energy digestibility, growing pig	79	%	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Energy digestibility, growing pig	61.5	%	Feedipedia
Mustard	Mustard seeds	Brassica sp.	Proximates	Energy digestibility, growing pig	76.6	%	Feedipedia
Palm	Oil palm kernels		Proximates	Energy digestibility, growing pig	72.1	%	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Energy digestibility, growing pig	30.3	%	Feedipedia

Olive	Olive oil cake	Crude, without stones	Proximates	Energy digestibility, growing pig	44.6	%	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Energy digestibility, growing pig	31	%	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Proximates	Energy digestibility, growing pig	48.4	%	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Energy digestibility, growing pig	57	%	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Energy digestibility, growing pig	55.1	%	Feedipedia
Olive	Olive pits	Exhausted	Proximates	Energy digestibility, growing pig	0	%	Feedipedia
Olive	Olive kernels	Exhausted	Proximates	Energy digestibility, growing pig	65.8	%	Feedipedia
Olive	Olive skins		Proximates	Energy digestibility, growing pig	45.7	%	Feedipedia
Olive	Olive oil vegetation water		Proximates	Energy digestibility, growing pig	89.9	%	Feedipedia

Palm	Palm kernel meal	Mechanical extraction	Proximates	Energy digestibility, growing pig	42	%	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Energy digestibility, growing pig	41.6	%	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Energy digestibility, growing pig	52.2	%	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Energy digestibility, growing pig	37.1	%	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Energy digestibility, growing pig	55.3	%	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Energy digestibility, growing pig	32.5	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Energy digestibility, growing pig	79	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Energy digestibility, growing pig	76.1	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Energy digestibility, growing pig	79.2	%	Feedipedia

Peanuts	Peanuts	Without shells	Proximates	Energy digestibility, growing pig	83.2	%	Feedipedia
Peanuts	Peanuts, with shells	With shells	Proximates	Energy digestibility, growing pig	48.4	%	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Energy digestibility, growing pig	63.9	%	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Energy digestibility, growing pig	60	%	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Energy digestibility, growing pig	72.2	%	Feedipedia
Pumpkin	Pumpkin	Fruits, fresh, Cucurbita sp.	Proximates	Energy digestibility, growing pig	69.4	%	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Energy digestibility, growing pig	36.7	%	Feedipedia
Pumpkin	Pumpkin oil meal	Mechanical extraction, Cucurbita sp.	Proximates	Energy digestibility, growing pig	81.2	%	Feedipedia

Rape	Rape straw		Proximates	Energy digestibility, growing pig	14.4	%	Feedipedia
Rape	Rapeseed hulls		Proximates	Energy digestibility, growing pig	52.3	%	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Energy digestibility, growing pig	69.1	%	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Energy digestibility, growing pig	70.3	%	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Energy digestibility, growing pig	71.1	%	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Energy digestibility, growing pig	81.5	%	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Energy digestibility, growing pig	37.8	%	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Energy digestibility, growing pig	41.3	%	Feedipedia

Sesame	Sesame meal	Mechanical extraction	Proximates	Energy digestibility, growing pig	76	%	Feedipedia
Soy	Soybean hulls		Proximates	Energy digestibility, growing pig	50.5	%	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Energy digestibility, growing pig	85.3	%	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Energy digestibility, growing pig	87.2	%	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Energy digestibility, growing pig	87.1	%	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Energy digestibility, growing pig	85.9	%	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Energy digestibility, growing pig	88.5	%	Feedipedia
Soy	Soybeans	Toasted	Proximates	Energy digestibility, growing pig	85.7	%	Feedipedia
Soy	Soybeans	Extruded	Proximates	Energy digestibility, growing pig	86	%	Feedipedia

Sunflower	Sunflower stover (stalks and heads)		Proximates	Energy digestibility, growing pig	14.6	%	Feedipedia
Sunflower	Sunflower hulls		Proximates	Energy digestibility, growing pig	10.3	%	Feedipedia
Sunflower	Sunflower screenings		Proximates	Energy digestibility, growing pig	23.8	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Energy digestibility, growing pig	53.4	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Energy digestibility, growing pig	60.1	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Energy digestibility, growing pig	51.9	%	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Energy digestibility, growing pig	55.6	%	Feedipedia
Sunflower	Sunflower seeds		Proximates	Energy digestibility, growing pig	63.1	%	Feedipedia

Tomatoes	Tomato oil cake		Proximates	Energy digestibility, growing pig	45.7	%	Feedipedia
Nuts, unspecified	Nut kernels	Walnut (Juglans regia)	Proximates	Energy digestibility, growing pig	75.7	%	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Energy digestibility, growing pig	83.8	%	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, high fibre	Proximates	Energy digestibility, growing pig	41.5	%	Feedipedia
Melon	Watermelon, seeds	Decorticated. Citrullus lanatus	Proximates	Energy digestibility, growing pig	77.2	%	Feedipedia
Melon	Watermelon, seeds	Whole. Citrullus lanatus	Proximates	Energy digestibility, growing pig	40.5	%	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Energy digestibility, growing pig	27.2	%	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Energy digestibility, growing pig	52.4	%	Feedipedia

Apple	Apple	Whole, fresh	Proximates	Energy digestibility, growing pig	83.5	%	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Energy digestibility, growing pig	82.9	%	Feedipedia
Banana	Banana fruits, ensiled	Mature, ensiled	Proximates	Energy digestibility, growing pig	80.5	%	Feedipedia
Banana	Banana fruits	Mature, without peel, fresh	Proximates	Energy digestibility, growing pig	89.9	%	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Energy digestibility, growing pig	84.1	%	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Proximates	Energy digestibility, growing pig	84	%	Feedipedia
Banana	Banana fruits, ensiled	Immature, ensiled	Proximates	Energy digestibility, growing pig	83.2	%	Feedipedia
Banana	Banana fruits	Immature, without peel, fresh	Proximates	Energy digestibility, growing pig	88.1	%	Feedipedia
Banana	Banana fruits, dried	Immature, without peel, dehydrated	Proximates	Energy digestibility, growing pig	86.9	%	Feedipedia

Plantain	Plantain banana fruits	Fresh	Proximates	Energy digestibility, growing pig	15.1	%	Feedipedia
Plantain	Plantain banana fruits, dried	Dehydrated	Proximates	Energy digestibility, growing pig	86.8	%	Feedipedia
Plantain	Plantain banana fruits	Without peel, cooked	Proximates	Energy digestibility, growing pig	89.3	%	Feedipedia
Banana	Banana flour		Proximates	Energy digestibility, growing pig	84.2	%	Feedipedia
Banana	Banana shoots	Fresh	Proximates	Energy digestibility, growing pig	14.4	%	Feedipedia
Plantain	Plantain banana trunk	Fresh	Proximates	Energy digestibility, growing pig	53	%	Feedipedia
Banana	Banana stalks	Fresh	Proximates	Energy digestibility, growing pig	44.7	%	Feedipedia
Plantain	Plantain banana shoots	Fresh	Proximates	Energy digestibility, growing pig	16	%	Feedipedia
Banana	Banana peel	Mature, fresh	Proximates	Energy digestibility, growing pig	74.6	%	Feedipedia

Banana	Banana peel	Immature, fresh	Proximates	Energy digestibility, growing pig	66.6	%	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Proximates	Energy digestibility, growing pig	76.5	%	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Proximates	Energy digestibility, growing pig	78.5	%	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Energy digestibility, growing pig	85.6	%	Feedipedia
Citrus, unspecified	Citrus, dried	Fruits, dried	Proximates	Energy digestibility, growing pig	72.2	%	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Energy digestibility, growing pig	75.3	%	Feedipedia
Lime	Lime	Fruits (Citrus aurantiifolia)	Proximates	Energy digestibility, growing pig	23.7	%	Feedipedia
Grapefruit	Grapefruit	Fruits (Citrus paradisi), fresh	Proximates	Energy digestibility, growing pig	76.4	%	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Energy digestibility, growing pig	64.6	%	Feedipedia

Citrus, unspecified	Citrus molasses		Proximates	Energy digestibility, growing pig	90.1	%	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy digestibility, growing pig	72.3	%	Feedipedia
Orange	Orange pulp, dried	Orange, dried	Proximates	Energy digestibility, growing pig	73	%	Feedipedia
Orange	Orange pulp, dried	Mandarin, dried	Proximates	Energy digestibility, growing pig	72.6	%	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Energy digestibility, growing pig	73.9	%	Feedipedia
Orange	Orange pulp	Orange, fresh	Proximates	Energy digestibility, growing pig	71.9	%	Feedipedia
Grapefruit	Grapefruit pulp	Grapefruit, fresh	Proximates	Energy digestibility, growing pig	76	%	Feedipedia
Orange	Orange pulp	Clementine, fresh	Proximates	Energy digestibility, growing pig	79.8	%	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Energy digestibility, growing pig	73.1	%	Feedipedia

Lemon	Lemon pulp	Fresh	Proximates	Energy digestibility, growing pig	69.2	%	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Energy digestibility, growing pig	81.3	%	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Energy digestibility, growing pig	71.4	%	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Energy digestibility, growing pig	75.9	%	Feedipedia
Grapefruit	Grapefruit peel silage	Grapefruit	Proximates	Energy digestibility, growing pig	73	%	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Energy digestibility, growing pig	68.2	%	Feedipedia
Lime	Lime peel silage	Lime	Proximates	Energy digestibility, growing pig	63.2	%	Feedipedia
Citrus, unspecified	Citrus seed meal		Proximates	Energy digestibility, growing pig	76.7	%	Feedipedia
Lime	Lime seeds	Lime (Citrus aurantiifolia)	Proximates	Energy digestibility, growing pig	69.4	%	Feedipedia

Coffee	Coffee hulls		Proximates	Energy digestibility, growing pig	33.6	%	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Energy digestibility, growing pig	61	%	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Energy digestibility, growing pig	80.5	%	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Energy digestibility, growing pig	85.1	%	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Energy digestibility, growing pig	78.3	%	Feedipedia
Melon	Melon	Fruit, fresh. Cucumis melo	Proximates	Energy digestibility, growing pig	51.2	%	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Energy digestibility, growing pig	62.2	%	Feedipedia
Melon	Watermelon	Fruit, fresh. Citrullus lanatus	Proximates	Energy digestibility, growing pig	48.1	%	Feedipedia

Sugar beet	Sugar beet molasses		Proximates	Energy digestibility, growing pig	89.9	%	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Energy digestibility, growing pig	82.5	%	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Energy digestibility, growing pig	75.6	%	Feedipedia
Potato	Potato peel	Fresh	Proximates	Energy digestibility, growing pig	84.9	%	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Energy digestibility, growing pig	86.1	%	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Energy digestibility, growing pig	58.8	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Energy digestibility, growing pig	59.6	%	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Energy digestibility, growing pig	57.4	%	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Energy digestibility, growing pig	77.4	%	Feedipedia

Sugar beet	Sugar beet tops	Fresh	Proximates	Energy digestibility, growing pig	73.1	%	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Proximates	Energy digestibility, growing pig	66.2	%	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Energy digestibility, growing pig	42.5	%	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Energy digestibility, growing pig	84.1	%	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Energy digestibility, growing pig	89.4	%	Feedipedia
Potato	Sweet potato	Tubers, cooked, fresh	Proximates	Energy digestibility, growing pig	93	%	Feedipedia
Sugar	Sugar, feed grade		Proximates	Energy digestibility, growing pig	90.1	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Energy digestibility, growing pig	58.8	%	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Energy digestibility, growing pig	18	%	Feedipedia

Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Energy digestibility, growing pig	17.3	%	Feedipedia
Sugar by-products, unspecified	Bagasse pith		Proximates	Energy digestibility, growing pig	19.3	%	Feedipedia
Sugar cane	Sugar cane juice		Proximates	Energy digestibility, growing pig	99	%	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Energy digestibility, growing pig	90	%	Feedipedia
Sugar cane	Sugar cane, syrup-off		Proximates	Energy digestibility, growing pig	90.1	%	Feedipedia
Sugar cane	Sugar cane mud	Filter press mud	Proximates	Energy digestibility, growing pig	71.1	%	Feedipedia
Sugar cane	Sugar cane mud	Rotary-filter mud	Proximates	Energy digestibility, growing pig	56.5	%	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Energy digestibility, growing pig	44.8	%	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Proximates	Energy digestibility, growing pig	53	%	Feedipedia

Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Energy digestibility, growing pig	90.1	%	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Energy digestibility, growing pig	90.1	%	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Energy digestibility, growing pig	90.1	%	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Energy digestibility, growing pig	89.2	%	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Energy digestibility, growing pig	90.1	%	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Energy digestibility, growing pig	89.3	%	Feedipedia
Animal by-products, unspecified	Blood meal	Preserved with acid	Proximates	Energy digestibility, growing pig	84.2	%	Feedipedia
Animal by-products, unspecified	Blood	Fresh	Proximates	Energy digestibility, growing pig	90.1	%	Feedipedia
Animal by-products, unspecified	Blood	Chicken, fresh	Proximates	Energy digestibility, growing pig	90.1	%	Feedipedia

Animal by-products, unspecified	Blood	Moist	Proximates	Energy digestibility, growing pig	86.6	%	Feedipedia
Animal by-products, unspecified	Bone meal	Calcinated	Proximates	Energy digestibility, growing pig	90.1	%	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Energy digestibility, growing pig	85.4	%	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Energy digestibility, growing pig	88.5	%	Feedipedia
Crab	Crab shells	Ground	Proximates	Energy digestibility, growing pig	72.3	%	Feedipedia
Eggs	Eggshells		Proximates	Energy digestibility, growing pig	89.7	%	Feedipedia
Poultry	Feather meal		Proximates	Energy digestibility, growing pig	88.7	%	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Energy digestibility, growing pig	89.4	%	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Energy digestibility, growing pig	88.8	%	Feedipedia

Fish, unspecified	Fish meal	Low protein	Proximates	Energy digestibility, growing pig	86.9	%	Feedipedia
Fish, unspecified	Fish oil		Proximates	Energy digestibility, growing pig	86.2	%	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Energy digestibility, growing pig	86.5	%	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Energy digestibility, growing pig	84.1	%	Feedipedia
Poultry	Hatchery by product		Proximates	Energy digestibility, growing pig	86.7	%	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Energy digestibility, growing pig	90.1	%	Feedipedia
Lamb	Lamb hooves	Raw	Proximates	Energy digestibility, growing pig	90.1	%	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Energy digestibility, growing pig	55	%	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Energy digestibility, growing pig	61	%	Feedipedia

Rabbit	Rabbit manure, dried	Dehydrated	Proximates	Energy digestibility, growing pig	52.5	%	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Energy digestibility, growing pig	68.7	%	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Energy digestibility, growing pig	69.1	%	Feedipedia
Beef	Rumen content	Calves, fresh	Proximates	Energy digestibility, growing pig	42.5	%	Feedipedia
Beef	Rumen content	Cattle, fresh	Proximates	Energy digestibility, growing pig	50.2	%	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Energy digestibility, growing pig	56.8	%	Feedipedia
Beef	Rumen content	Lambs, fresh	Proximates	Energy digestibility, growing pig	50.1	%	Feedipedia
Shrimp	Shrimp heads	Fresh	Proximates	Energy digestibility, growing pig	73.5	%	Feedipedia
Shrimp	Shrimp heads, dried	Dehydrated	Proximates	Energy digestibility, growing pig	75.6	%	Feedipedia

Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Energy digestibility, growing pig	76.8	%	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Energy digestibility, growing pig	88.2	%	Feedipedia
Snail	Snail meal	With shells	Proximates	Energy digestibility, growing pig	76.3	%	Feedipedia
Snail	Snail meal	Without shells	Proximates	Energy digestibility, growing pig	83.3	%	Feedipedia
Starfish	Starfish meal		Proximates	Energy digestibility, growing pig	16.2	%	Feedipedia
Whale	Whale meal		Proximates	Energy digestibility, growing pig	90.1	%	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Energy digestibility, growing pig	95	%	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Energy digestibility, growing pig	95	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Energy digestibility, growing pig	87.2	%	Feedipedia

Bakery	Bakery and viennoiserie by products		Proximates	Energy digestibility, growing pig	88	%	Feedipedia
Corn	Maize starch		Proximates	Energy digestibility, growing pig	98	%	Feedipedia
Wheat	Wheat straw		Proximates	Energy digestibility, rabbit	18.8	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Energy digestibility, rabbit	61.5	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Energy digestibility, rabbit	72.8	%	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Energy digestibility, rabbit	57.4	%	Feedipedia
Rice	Rice hull		Proximates	Energy digestibility, rabbit	36.3	%	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Energy digestibility, rabbit	77.7	%	Feedipedia
Wheat	Wheat bran		Proximates	Energy digestibility, rabbit	62.7	%	Feedipedia

Wheat	Wheat germs		Proximates	Energy digestibility, rabbit	89.7	%	Feedipedia
Wheat	Wheat grain		Proximates	Energy digestibility, rabbit	83.5	%	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Energy digestibility, rabbit	28.1	%	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Energy digestibility, rabbit	66.1	%	Feedipedia
Flax/linseed	Flax chaff		Proximates	Energy digestibility, rabbit	24.4	%	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Energy digestibility, rabbit	22.1	%	Feedipedia
Flax/linseed	Linseed meal		Proximates	Energy digestibility, rabbit	72.3	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Energy digestibility, rabbit	69.1	%	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Energy digestibility, rabbit	34.2	%	Feedipedia

Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Energy digestibility, rabbit	80.1	%	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Energy digestibility, rabbit	79.1	%	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Energy digestibility, rabbit	83.9	%	Feedipedia
Sunflower	Sunflower hulls		Proximates	Energy digestibility, rabbit	24.4	%	Feedipedia
Sunflower	Sunflower screenings		Proximates	Energy digestibility, rabbit	24.5	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Energy digestibility, rabbit	59.2	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Energy digestibility, rabbit	74.4	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Energy digestibility, rabbit	56.2	%	Feedipedia

Citrus, unspecified	Citrus pulp, dried		Proximates	Energy digestibility, rabbit	80.2	%	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Energy digestibility, rabbit	25.5	%	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Energy digestibility, rabbit	91.9	%	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Energy digestibility, rabbit	73.9	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Energy digestibility, rabbit	73.9	%	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Energy digestibility, rabbit	91.6	%	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Energy digestibility, rabbit	67.5	%	Feedipedia
Rice	Rice hay		Proximates	Energy digestibility, ruminants	58.5	%	Feedipedia
Rice	Rice, aerial part	Fresh	Proximates	Energy digestibility, ruminants	63.3	%	Feedipedia

Rice	Rice straw		Proximates	Energy digestibility, ruminants	46.5	%	Feedipedia
Rice	Rice straw	Urea-treated	Proximates	Energy digestibility, ruminants	56.4	%	Feedipedia
Rice	Rice straw	Ammonia-treated	Proximates	Energy digestibility, ruminants	54.2	%	Feedipedia
Rice	Rice straw	NaOH-treated	Proximates	Energy digestibility, ruminants	58.5	%	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Energy digestibility, ruminants	66.3	%	Feedipedia
Sugar cane	Sugar cane leaves	Fresh	Proximates	Energy digestibility, ruminants	29.2	%	Feedipedia
Wheat	Triticale grain		Proximates	Energy digestibility, ruminants	85.4	%	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Energy digestibility, ruminants	65.5	%	Feedipedia
Wheat	Triticale straw		Proximates	Energy digestibility, ruminants	46.9	%	Feedipedia

Wheat	Wheat hay		Proximates	Energy digestibility, ruminants	54.6	%	Feedipedia
Wheat	Wheat straw		Proximates	Energy digestibility, ruminants	45.2	%	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Energy digestibility, ruminants	66.1	%	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Energy digestibility, ruminants	51.7	%	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Energy digestibility, ruminants	70.9	%	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Energy digestibility, ruminants	67	%	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Energy digestibility, ruminants	89	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Energy digestibility, ruminants	63.2	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Energy digestibility, ruminants	76.5	%	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Energy digestibility, ruminants	63.1	%	Feedipedia
Rice	Rice grain	Polished	Proximates	Energy digestibility, ruminants	89.9	%	Feedipedia
Rice	Rice grain	Brown	Proximates	Energy digestibility, ruminants	86.6	%	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Energy digestibility, ruminants	65.7	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Energy digestibility, ruminants	83.5	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Energy digestibility, ruminants	78.7	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Energy digestibility, ruminants	81.2	%	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Energy digestibility, ruminants	85.4	%	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Energy digestibility, ruminants	92.5	%	Feedipedia

Rice	Rice bran	Fibre 4-11%	Proximates	Energy digestibility, ruminants	75.4	%	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Energy digestibility, ruminants	61.1	%	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Energy digestibility, ruminants	42.6	%	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Energy digestibility, ruminants	78.5	%	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Energy digestibility, ruminants	70.2	%	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Energy digestibility, ruminants	35.5	%	Feedipedia
Rice	Rice hull		Proximates	Energy digestibility, ruminants	22.8	%	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Energy digestibility, ruminants	68.4	%	Feedipedia
Sorghum	Sorghum bran and milling offal		Proximates	Energy digestibility, ruminants	84.1	%	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Energy digestibility, ruminants	76.4	%	Feedipedia
Distillers grain	Distillers grain	Fresh, Sorghum, with or without solubles	Proximates	Energy digestibility, ruminants	82.5	%	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Energy digestibility, ruminants	83.6	%	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Energy digestibility, ruminants	85.4	%	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Energy digestibility, ruminants	86.2	%	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Energy digestibility, ruminants	89.1	%	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Energy digestibility, ruminants	84.7	%	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Energy digestibility, ruminants	85.2	%	Feedipedia
Wheat	Wheat bran		Proximates	Energy digestibility, ruminants	71.4	%	Feedipedia

Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Energy digestibility, ruminants	78.5	%	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Energy digestibility, ruminants	81.8	%	Feedipedia
Wheat	Wheat germs		Proximates	Energy digestibility, ruminants	85.4	%	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Proximates	Energy digestibility, ruminants	59.5	%	Feedipedia
Wheat	Wheat grain		Proximates	Energy digestibility, ruminants	85.7	%	Feedipedia
Wheat	Wheat screenings		Proximates	Energy digestibility, ruminants	82.1	%	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Energy digestibility, ruminants	35.8	%	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Energy digestibility, ruminants	79.1	%	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Energy digestibility, ruminants	77.2	%	Feedipedia

Cotton	Cotton straw		Proximates	Energy digestibility, ruminants	34	%	Feedipedia
Cotton	Cottonseed hulls		Proximates	Energy digestibility, ruminants	41.1	%	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Energy digestibility, ruminants	78.4	%	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Energy digestibility, ruminants	82.5	%	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Energy digestibility, ruminants	72.1	%	Feedipedia
Flax/linseed	Flax straw		Proximates	Energy digestibility, ruminants	38.7	%	Feedipedia
Flax/linseed	Flax chaff		Proximates	Energy digestibility, ruminants	46.7	%	Feedipedia
Flax/linseed	Flax shives		Proximates	Energy digestibility, ruminants	34.4	%	Feedipedia
Flax/linseed	Flax hay		Proximates	Energy digestibility, ruminants	58	%	Feedipedia

Grape	Grape seed oil meal	Oil <5%	Proximates	Energy digestibility, ruminants	24.8	%	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Proximates	Energy digestibility, ruminants	38.8	%	Feedipedia
Flax/linseed	Linseed meal		Proximates	Energy digestibility, ruminants	78.1	%	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Energy digestibility, ruminants	77.4	%	Feedipedia
Flax/linseed	Linseeds		Proximates	Energy digestibility, ruminants	83.5	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Energy digestibility, ruminants	78.8	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Energy digestibility, ruminants	78.6	%	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Energy digestibility, ruminants	85.6	%	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Energy digestibility, ruminants	80.8	%	Feedipedia

Corn	Maize germ	Oil <30%	Proximates	Energy digestibility, ruminants	87.3	%	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Energy digestibility, ruminants	84.6	%	Feedipedia
Palm	Oil palm kernels		Proximates	Energy digestibility, ruminants	81.4	%	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Energy digestibility, ruminants	24.4	%	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Energy digestibility, ruminants	37.2	%	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Energy digestibility, ruminants	23.8	%	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Proximates	Energy digestibility, ruminants	40.6	%	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Energy digestibility, ruminants	53.6	%	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Energy digestibility, ruminants	46.7	%	Feedipedia

Palm	Palm kernel meal	Mechanical extraction	Proximates	Energy digestibility, ruminants	71.2	%	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Energy digestibility, ruminants	70.4	%	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Energy digestibility, ruminants	55.2	%	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Energy digestibility, ruminants	69.9	%	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Energy digestibility, ruminants	17.3	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Energy digestibility, ruminants	84.3	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Energy digestibility, ruminants	82.5	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Energy digestibility, ruminants	85.3	%	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Energy digestibility, ruminants	98.4	%	Feedipedia

Peanuts	Peanuts, with shells	With shells	Proximates	Energy digestibility, ruminants	88.4	%	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Energy digestibility, ruminants	59.3	%	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Energy digestibility, ruminants	72.1	%	Feedipedia
Pumpkin	Pumpkin crop by-product	Fresh, Cucurbita sp.	Proximates	Energy digestibility, ruminants	72.9	%	Feedipedia
Rape	Rape forage	Fresh	Proximates	Energy digestibility, ruminants	79.6	%	Feedipedia
Rape	Rape forage	Silage	Proximates	Energy digestibility, ruminants	78.8	%	Feedipedia
Rape	Rape forage, dried	Dehydrated	Proximates	Energy digestibility, ruminants	65.1	%	Feedipedia
Rape	Rape straw		Proximates	Energy digestibility, ruminants	36.5	%	Feedipedia
Rape	Rapeseed hulls		Proximates	Energy digestibility, ruminants	54.5	%	Feedipedia

Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Energy digestibility, ruminants	75.7	%	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Energy digestibility, ruminants	77.7	%	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Energy digestibility, ruminants	77.5	%	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Energy digestibility, ruminants	86.9	%	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Energy digestibility, ruminants	80.3	%	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Energy digestibility, ruminants	61.1	%	Feedipedia
Soy	Soybean hay		Proximates	Energy digestibility, ruminants	55.5	%	Feedipedia
Soy	Soybean straw		Proximates	Energy digestibility, ruminants	49.5	%	Feedipedia
Soy	Soybean hulls		Proximates	Energy digestibility, ruminants	79.6	%	Feedipedia

Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Energy digestibility, ruminants	92.2	%	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Energy digestibility, ruminants	92.8	%	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Energy digestibility, ruminants	93.4	%	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Energy digestibility, ruminants	83.7	%	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Energy digestibility, ruminants	84.7	%	Feedipedia
Soy	Soybeans	Toasted	Proximates	Energy digestibility, ruminants	83.7	%	Feedipedia
Soy	Soybeans	Extruded	Proximates	Energy digestibility, ruminants	83.6	%	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Energy digestibility, ruminants	63.4	%	Feedipedia
Sunflower	Sunflower forage	Silage	Proximates	Energy digestibility, ruminants	62.9	%	Feedipedia

Sunflower	Sunflower stover (stalks and heads)		Proximates	Energy digestibility, ruminants	42.6	%	Feedipedia
Sunflower	Sunflower heads	Without seeds	Proximates	Energy digestibility, ruminants	59	%	Feedipedia
Sunflower	Sunflower stalks		Proximates	Energy digestibility, ruminants	47.2	%	Feedipedia
Sunflower	Sunflower screenings		Proximates	Energy digestibility, ruminants	50.5	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Energy digestibility, ruminants	61.1	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Energy digestibility, ruminants	65.6	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Energy digestibility, ruminants	60.1	%	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Energy digestibility, ruminants	64.1	%	Feedipedia

Nuts, unspecified	Nut hulls	Walnut (Juglans regia)	Proximates	Energy digestibility, ruminants	26.5	%	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Energy digestibility, ruminants	53.7	%	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Energy digestibility, ruminants	67.6	%	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Energy digestibility, ruminants	80.2	%	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Energy digestibility, ruminants	77.8	%	Feedipedia
Banana	Banana	Aerial part, fresh	Proximates	Energy digestibility, ruminants	70.4	%	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Energy digestibility, ruminants	90.3	%	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Energy digestibility, ruminants	89.8	%	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Energy digestibility, ruminants	74.9	%	Feedipedia

Citrus, unspecified	Citrus pulp, dried		Proximates	Energy digestibility, ruminants	83.9	%	Feedipedia
Orange	Orange pulp, dried	Orange, dried	Proximates	Energy digestibility, ruminants	84.8	%	Feedipedia
Orange	Orange pulp, dried	Mandarin, dried	Proximates	Energy digestibility, ruminants	85.2	%	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Energy digestibility, ruminants	83.8	%	Feedipedia
Orange	Orange pulp	Orange, fresh	Proximates	Energy digestibility, ruminants	89.5	%	Feedipedia
Grapefruit	Grapefruit pulp	Grapefruit, fresh	Proximates	Energy digestibility, ruminants	88.4	%	Feedipedia
Orange	Orange pulp	Clementine, fresh	Proximates	Energy digestibility, ruminants	93.1	%	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Energy digestibility, ruminants	90.2	%	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Energy digestibility, ruminants	89	%	Feedipedia

Orange	Orange peel	Orange, fresh	Proximates	Energy digestibility, ruminants	94.6	%	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Energy digestibility, ruminants	83.5	%	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Energy digestibility, ruminants	88.5	%	Feedipedia
Grapefruit	Grapefruit peel silage	Grapefruit	Proximates	Energy digestibility, ruminants	85.3	%	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Energy digestibility, ruminants	80.7	%	Feedipedia
Lime	Lime peel silage	Lime	Proximates	Energy digestibility, ruminants	74.2	%	Feedipedia
Coffee	Instant coffee by product		Proximates	Energy digestibility, ruminants	37.7	%	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Energy digestibility, ruminants	79.4	%	Feedipedia
Date	Date palm leaves	Fresh	Proximates	Energy digestibility, ruminants	42	%	Feedipedia

Date	Date palm leaves, dried	Dry	Proximates	Energy digestibility, ruminants	40.9	%	Feedipedia
Date	Date palm pedicels		Proximates	Energy digestibility, ruminants	44.4	%	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Energy digestibility, ruminants	28	%	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Energy digestibility, ruminants	29.9	%	Feedipedia
Grape	Grape pomace	Silage	Proximates	Energy digestibility, ruminants	23.4	%	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Energy digestibility, ruminants	88.4	%	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Energy digestibility, ruminants	83.1	%	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Energy digestibility, ruminants	83.9	%	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Energy digestibility, ruminants	87.1	%	Feedipedia

Sugar beet	Sugar beet pulp		Proximates	Energy digestibility, ruminants	80.2	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Energy digestibility, ruminants	80.9	%	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Energy digestibility, ruminants	79.4	%	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Proximates	Energy digestibility, ruminants	78.7	%	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Energy digestibility, ruminants	87.6	%	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Proximates	Energy digestibility, ruminants	71.1	%	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Proximates	Energy digestibility, ruminants	69.4	%	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Energy digestibility, ruminants	61.8	%	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Energy digestibility, ruminants	81.3	%	Feedipedia

Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Energy digestibility, ruminants	82.3	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Energy digestibility, ruminants	80.2	%	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Energy digestibility, ruminants	46.5	%	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Energy digestibility, ruminants	42.3	%	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Energy digestibility, ruminants	76.6	%	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Energy digestibility, ruminants	54.5	%	Feedipedia
Sugar cane	Sugar cane tops	Silage	Proximates	Energy digestibility, ruminants	52.7	%	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Energy digestibility, ruminants	70.2	%	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Energy digestibility, ruminants	76.5	%	Feedipedia

Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Energy digestibility, ruminants	76.5	%	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Energy digestibility, ruminants	82.3	%	Feedipedia
Poultry	Feather meal		Proximates	Energy digestibility, ruminants	82.6	%	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Energy digestibility, ruminants	97.5	%	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Energy digestibility, ruminants	95.9	%	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Energy digestibility, ruminants	68.8	%	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Energy digestibility, ruminants	91.3	%	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Energy digestibility, ruminants	91.3	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Energy digestibility, ruminants	89.7	%	Feedipedia

Wheat	Wheat starch		Proximates	Energy digestibility, salmonids	39.4	%	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Energy digestibility, salmonids	62.2	%	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Energy digestibility, salmonids	62.2	%	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Energy digestibility, salmonids	75	%	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Energy digestibility, salmonids	60.4	%	Feedipedia
Poultry	Feather meal		Proximates	Energy digestibility, salmonids	64.4	%	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Energy digestibility, salmonids	83.3	%	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Energy digestibility, salmonids	81.7	%	Feedipedia
Fish, unspecified	Fish oil		Proximates	Energy digestibility, salmonids	96.4	%	Feedipedia

Poultry	Offal meal	Poultry	Proximates	Energy digestibility, salmonids	68.9	%	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Energy digestibility, salmonids	82.6	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Energy digestibility, salmonids	69.7	%	Feedipedia
Apple	Apple pomace, dried	Dried	Proximates	Energy for growth	40	Mcal/cwt.	2012FeedComp
Apple	Apple pomace, dried	Dried	Proximates	Energy for maintenance	69	Mcal/cwt.	2012FeedComp
Distillers grain	Distillers grain	Wet	Proximates	Energy for maintenance	100	Mcal/cwt.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Proximates	Energy for maintenance	95	Mcal/cwt.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Proximates	Energy for maintenance	93	Mcal/cwt.	2012FeedComp
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Energy, apparent metabolisable, N correct, poultry	9.5	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Energy, apparent metabolisable, N correct, poultry	10.6	MJ/kg DM	Feedipedia

Wheat	Triticale grain		Proximates	Energy, apparent metabolisable, N corrected, broiler	13.5	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Energy, apparent metabolisable, N corrected, broiler	13.7	MJ/kg DM	Feedipedia
Rice	Rice grain	Brown	Proximates	Energy, apparent metabolisable, N corrected, broiler	16.8	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Energy, apparent metabolisable, N corrected, broiler	12.3	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Energy, apparent metabolisable, N corrected, broiler	12.4	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Energy, apparent metabolisable, N corrected, broiler	10.1	MJ/kg DM	Feedipedia

Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Energy, apparent metabolisable, N corrected, broiler	12.4	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Energy, apparent metabolisable, N corrected, broiler	10.3	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Energy, apparent metabolisable, N corrected, broiler	9.6	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Energy, apparent metabolisable, N corrected, broiler	7.6	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Energy, apparent metabolisable, N corrected, broiler	5	MJ/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Energy, apparent metabolisable, N corrected, broiler	9.2	MJ/kg DM	Feedipedia

Sorghum	Sorghum grain	All types	Proximates	Energy, apparent metabolisable, N corrected, broiler	15.7	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Energy, apparent metabolisable, N corrected, broiler	15.4	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Energy, apparent metabolisable, N corrected, broiler	15.7	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Energy, apparent metabolisable, N corrected, broiler	15.7	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Energy, apparent metabolisable, N corrected, broiler	15.9	MJ/kg DM	Feedipedia
Wheat	Wheat bran		Proximates	Energy, apparent metabolisable, N corrected, broiler	7.4	MJ/kg DM	Feedipedia

Wheat	Wheat grain		Proximates	Energy, apparent metabolisable, N corrected, broiler	13.8	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Energy, apparent metabolisable, N corrected, broiler	19.6	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Energy, apparent metabolisable, N corrected, broiler	8.7	MJ/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Energy, apparent metabolisable, N corrected, broiler	10.6	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Energy, apparent metabolisable, N corrected, broiler	9.8	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Energy, apparent metabolisable, N corrected, broiler	8.8	MJ/kg DM	Feedipedia

Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Energy, apparent metabolisable, N corrected, broiler	12.3	MJ/kg DM	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Energy, apparent metabolisable, N corrected, broiler	13.9	MJ/kg DM	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Energy, apparent metabolisable, N corrected, broiler	17.3	MJ/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Energy, apparent metabolisable, N corrected, broiler	11.1	MJ/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Energy, apparent metabolisable, N corrected, broiler	10.1	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Energy, apparent metabolisable, N corrected, broiler	11.6	MJ/kg DM	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Energy, apparent metabolisable, N corrected, broiler	11.7	MJ/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Energy, apparent metabolisable, N corrected, broiler	9.6	MJ/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Energy, apparent metabolisable, N corrected, broiler	9.6	MJ/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Energy, apparent metabolisable, N corrected, broiler	11.2	MJ/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Energy, apparent metabolisable, N corrected, broiler	10.7	MJ/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Energy, apparent metabolisable, N corrected, broiler	11	MJ/kg DM	Feedipedia

Soy	Soybean meal	High oil (expeller)	Proximates	Energy, apparent metabolisable, N corrected, broiler	10.7	MJ/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Energy, apparent metabolisable, N corrected, broiler	17.1	MJ/kg DM	Feedipedia
Soy	Soybeans	Extruded	Proximates	Energy, apparent metabolisable, N corrected, broiler	17.1	MJ/kg DM	Feedipedia
Plantain	Plantain banana fruits, dried	Dehydrated	Proximates	Energy, apparent metabolisable, N corrected, broiler	13.1	MJ/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Energy, apparent metabolisable, N corrected, broiler	15.9	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Energy, apparent metabolisable, N corrected, broiler	13.5	MJ/kg DM	Feedipedia

Poultry	Feather meal		Proximates	Energy, apparent metabolisable, N corrected, broiler	11.7	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Energy, apparent metabolisable, N corrected, broiler	14.4	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Energy, apparent metabolisable, N corrected, broiler	12	MJ/kg DM	Feedipedia
Snail	Snail meal	With shells	Proximates	Energy, apparent metabolisable, N corrected, broiler	8.9	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Energy, apparent metabolisable, N corrected, broiler	9.3	MJ/kg DM	Feedipedia
Sunflower	Sunflower seeds		Proximates	Energy, apparent metabolisable, N corrected, broiler, ground	18.5	MJ/kg DM	Feedipedia

Sunflower	Sunflower seeds		Proximates	Energy, apparent metabolisable, N corrected, broiler, pelleted	19.3	MJ/kg DM	Feedipedia
Wheat	Triticale grain		Proximates	Energy, apparent metabolisable, N corrected, cockerel	14.2	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Energy, apparent metabolisable, N corrected, cockerel	9.6	MJ/kg DM	Feedipedia
Rice	Rice grain	Brown	Proximates	Energy, apparent metabolisable, N corrected, cockerel	17.1	MJ/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Energy, apparent metabolisable, N corrected, cockerel	6.6	MJ/kg DM	Feedipedia

Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Energy, apparent metabolisable, N corrected, cockerel	12.6	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Energy, apparent metabolisable, N corrected, cockerel	12.6	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Energy, apparent metabolisable, N corrected, cockerel	10.3	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Energy, apparent metabolisable, N corrected, cockerel	12.6	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Energy, apparent metabolisable, N corrected, cockerel	10.6	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Energy, apparent metabolisable, N corrected, cockerel	9.9	MJ/kg DM	Feedipedia

Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Energy, apparent metabolisable, N corrected, cockerel	7.8	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Energy, apparent metabolisable, N corrected, cockerel	5.2	MJ/kg DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Proximates	Energy, apparent metabolisable, N corrected, cockerel	9.3	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Energy, apparent metabolisable, N corrected, cockerel	16	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Energy, apparent metabolisable, N corrected, cockerel	15.7	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Energy, apparent metabolisable, N corrected, cockerel	16	MJ/kg DM	Feedipedia

Sorghum	Sorghum grain	Red varieties	Proximates	Energy, apparent metabolisable, N corrected, cockerel	16.1	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Energy, apparent metabolisable, N corrected, cockerel	16.3	MJ/kg DM	Feedipedia
Wheat	Wheat bran		Proximates	Energy, apparent metabolisable, N corrected, cockerel	7.8	MJ/kg DM	Feedipedia
Wheat	Wheat grain		Proximates	Energy, apparent metabolisable, N corrected, cockerel	14.4	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Energy, apparent metabolisable, N corrected, cockerel	14.1	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Energy, apparent metabolisable, N corrected, cockerel	21.2	MJ/kg DM	Feedipedia

Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Energy, apparent metabolisable, N corrected, cockerel	9.4	MJ/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Energy, apparent metabolisable, N corrected, cockerel	9.1	MJ/kg DM	Feedipedia
Flax/linseed	Linseed meal		Proximates	Energy, apparent metabolisable, N corrected, cockerel	12.6	MJ/kg DM	Feedipedia
Flax/linseed	Linseeds		Proximates	Energy, apparent metabolisable, N corrected, cockerel	16.1	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Energy, apparent metabolisable, N corrected, cockerel	11.6	MJ/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Energy, apparent metabolisable, N corrected, cockerel	7.4	MJ/kg DM	Feedipedia

Canola	Canola meal	Oil <5% as fed	Proximates	Energy, apparent metabolisable, N corrected, cockerel	9.2	MJ/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Energy, apparent metabolisable, N corrected, cockerel	16.8	MJ/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Energy, apparent metabolisable, N corrected, cockerel	11.4	MJ/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Energy, apparent metabolisable, N corrected, cockerel	10.9	MJ/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Energy, apparent metabolisable, N corrected, cockerel	11.2	MJ/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Energy, apparent metabolisable, N corrected, cockerel	16	MJ/kg DM	Feedipedia

Soy	Soybeans	Toasted	Proximates	Energy, apparent metabolisable, N corrected, cockerel	15.7	MJ/kg DM	Feedipedia
Soy	Soybeans	Extruded	Proximates	Energy, apparent metabolisable, N corrected, cockerel	16	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Energy, apparent metabolisable, N corrected, cockerel	8.6	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Energy, apparent metabolisable, N corrected, cockerel	8.8	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Energy, apparent metabolisable, N corrected, cockerel	6.2	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Energy, apparent metabolisable, N corrected, cockerel	10.8	MJ/kg DM	Feedipedia

Citrus, unspecified	Citrus pulp, dried		Proximates	Energy, apparent metabolisable, N corrected, cockerel	5.8	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Energy, apparent metabolisable, N corrected, cockerel	12.3	MJ/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Energy, apparent metabolisable, N corrected, cockerel	14.5	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Energy, apparent metabolisable, N corrected, cockerel	13.5	MJ/kg DM	Feedipedia
Poultry	Feather meal		Proximates	Energy, apparent metabolisable, N corrected, cockerel	12.5	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Energy, apparent metabolisable, N corrected, cockerel	16	MJ/kg DM	Feedipedia

Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Energy, apparent metabolisable, N corrected, cockerel	14.4	MJ/kg DM	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Energy, apparent metabolisable, N corrected, cockerel	14.1	MJ/kg DM	Feedipedia
Frog	Frog meal	Whole frog	Proximates	Energy, apparent metabolisable, N corrected, cockerel	12.8	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Energy, apparent metabolisable, N corrected, cockerel	11.8	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Energy, apparent metabolisable, N corrected, cockerel	11.9	MJ/kg DM	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Energy, apparent metabolisable, N corrected, cockerel	15.2	MJ/kg DM	Feedipedia

Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Energy, apparent metabolisable, N corrected, cockerel	12.1	MJ/kg DM	Feedipedia
Sunflower	Sunflower seeds		Proximates	Energy, apparent metabolisable, N corrected, cockerel, ground	19.6	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Energy, apparent metabolisable, N corrected, cockerel, ground	13	MJ/kg DM	Feedipedia
Sunflower	Sunflower seeds		Proximates	Energy, apparent metabolisable, N corrected, cockerel, pelleted	20.4	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Energy, apparent metabolisable, poultry	9.9	MJ/kg DM	Feedipedia

Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Energy, apparent metabolisable, poultry	11	MJ/kg DM	Feedipedia
Palm	Palm oil mill effluent	Decanted	Proximates	Energy, apparent metabolisable, poultry	13.1	MJ/kg DM	Feedipedia
Orange	Orange pulp, dried	Sheep	Proximates	Energy, digestible	15.35	sheep, MJ/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Energy, digestible	12.64	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Energy, digestible	13.72	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Energy, digestible	15.55	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Energy, digestible	15.77	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Energy, digestible	14.97	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Energy, digestible	14.45	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Energy, digestible	15.01	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Energy, digestible	14.26	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Energy, digestible	14.22	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Energy, digestible	14.72	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Nuts, unspecified	Nut meal	Babacu	Proximates	Energy, digestible	2047	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Nuts, unspecified	Nut meal	Cashew	Proximates	Energy, digestible	3468	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cassava	Cassava meal		Proximates	Energy, digestible	3008	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Proximates	Energy, digestible	3197	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Corn	Corn gluten meal		Proximates	Energy, digestible	3985	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cotton	Cottonseed meal	solv	Proximates	Energy, digestible	2535	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Proximates	Energy, digestible	3273	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Animal by-products, unspecified	Meat and bone meal		Proximates	Energy, digestible	3103	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Rice	Rice bran	Defatted	Proximates	Energy, digestible	2506	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Proximates	Energy, digestible	3532	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Sugar cane	Sugar cane juice		Proximates	Energy, digestible	760	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Proximates	Energy, digestible	2478	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Wheat	Wheat bran		Proximates	Energy, digestible	2642	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Tomatoes	Tomato	Cull	Proximates	Energy, digestible	2.59	Mcal DE/kg DM	Utilization of fruit and vegetable wastes, FAO

Cabbage	Cabbage meal		Proximates	Energy, digestible	16	MJ/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology
Distillery by-products, unspecified	Distillers solids	Wet	Proximates	Energy, digestible	19.31	MJ/kg DM	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Rice	Rice straw		Proximates	Energy, digestible, growing pig	5.4	MJ/kg DM	Feedipedia

Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Energy, digestible, growing pig	6.7	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Energy, digestible, growing pig	9.5	MJ/kg DM	Feedipedia
Wheat	Triticale grain		Proximates	Energy, digestible, growing pig	15.6	MJ/kg DM	Feedipedia
Wheat	Triticale straw		Proximates	Energy, digestible, growing pig	3	MJ/kg DM	Feedipedia
Wheat	Wheat straw		Proximates	Energy, digestible, growing pig	2.3	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Energy, digestible, growing pig	15.3	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Energy, digestible, growing pig	14.5	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Energy, digestible, growing pig	18	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Energy, digestible, growing pig	10.6	MJ/kg DM	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Energy, digestible, growing pig	11	MJ/kg DM	Feedipedia
Rice	Rice grain	Polished	Proximates	Energy, digestible, growing pig	16.1	MJ/kg DM	Feedipedia
Rice	Rice grain	Polished, parboiled	Proximates	Energy, digestible, growing pig	15.9	MJ/kg DM	Feedipedia
Rice	Rice grain	Brown	Proximates	Energy, digestible, growing pig	17.4	MJ/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Energy, digestible, growing pig	11.2	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Energy, digestible, growing pig	16.7	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Energy, digestible, growing pig	14.1	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Energy, digestible, growing pig	16.7	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Energy, digestible, growing pig	17.2	MJ/kg DM	Feedipedia

Rice	Rice bran	Fibre 4-11%	Proximates	Energy, digestible, growing pig	16.2	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Energy, digestible, growing pig	13	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Energy, digestible, growing pig	8.8	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Energy, digestible, growing pig	74.8	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Energy, digestible, growing pig	11.4	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Energy, digestible, growing pig	7.1	MJ/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Energy, digestible, growing pig	13.1	MJ/kg DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Proximates	Energy, digestible, growing pig	15	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Energy, digestible, growing pig	11.8	MJ/kg DM	Feedipedia

Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Energy, digestible, growing pig	13.9	MJ/kg DM	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Energy, digestible, growing pig	17.5	MJ/kg DM	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Energy, digestible, growing pig	16.8	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Energy, digestible, growing pig	16.1	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Energy, digestible, growing pig	15.9	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Energy, digestible, growing pig	16.4	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Energy, digestible, growing pig	16.1	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Energy, digestible, growing pig	16.2	MJ/kg DM	Feedipedia
Wheat	Wheat bran		Proximates	Energy, digestible, growing pig	10.8	MJ/kg DM	Feedipedia

Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Energy, digestible, growing pig	13.9	MJ/kg DM	Feedipedia
Wheat	Wheat germs		Proximates	Energy, digestible, growing pig	17.2	MJ/kg DM	Feedipedia
Wheat	Wheat grain		Proximates	Energy, digestible, growing pig	15.9	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Energy, digestible, growing pig	15.9	MJ/kg DM	Feedipedia
Wheat	Wheat screenings		Proximates	Energy, digestible, growing pig	14.6	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Almond	Proximates	Energy, digestible, growing pig	26.5	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Almond, dehulled, mechanical extraction	Proximates	Energy, digestible, growing pig	10	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Energy, digestible, growing pig	23.5	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Proximates	Energy, digestible, growing pig	19.8	MJ/kg DM	Feedipedia

Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Energy, digestible, growing pig	9.6	MJ/kg DM	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Energy, digestible, growing pig	7.8	MJ/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Energy, digestible, growing pig	3.7	MJ/kg DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Energy, digestible, growing pig	11.3	MJ/kg DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Energy, digestible, growing pig	7.7	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Energy, digestible, growing pig	11.2	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Energy, digestible, growing pig	9.9	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Fresh	Proximates	Energy, digestible, growing pig	27	MJ/kg DM	Feedipedia
Coconut	Coconut water		Proximates	Energy, digestible, growing pig	13.5	MJ/kg DM	Feedipedia

Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Energy, digestible, growing pig	14	MJ/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Energy, digestible, growing pig	13.5	MJ/kg DM	Feedipedia
Flax/linseed	Linseed meal		Proximates	Energy, digestible, growing pig	15.7	MJ/kg DM	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Energy, digestible, growing pig	14.5	MJ/kg DM	Feedipedia
Flax/linseed	Linseeds		Proximates	Energy, digestible, growing pig	20.9	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Energy, digestible, growing pig	15.4	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Energy, digestible, growing pig	14.6	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Energy, digestible, growing pig	11.3	MJ/kg DM	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Energy, digestible, growing pig	16.3	MJ/kg DM	Feedipedia

Corn	Maize germ	Oil >30%	Proximates	Energy, digestible, growing pig	22.9	MJ/kg DM	Feedipedia
Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Proximates	Energy, digestible, growing pig	16	MJ/kg DM	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Energy, digestible, growing pig	11.5	MJ/kg DM	Feedipedia
Mustard	Mustard seeds	Brassica sp.	Proximates	Energy, digestible, growing pig	21.7	MJ/kg DM	Feedipedia
Palm	Oil palm kernels		Proximates	Energy, digestible, growing pig	20.5	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Energy, digestible, growing pig	6.3	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Energy, digestible, growing pig	44.6	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Energy, digestible, growing pig	5.8	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Proximates	Energy, digestible, growing pig	9.1	MJ/kg DM	Feedipedia

Olive	Olive oil pulp	Crude	Proximates	Energy, digestible, growing pig	14.5	MJ/kg DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Energy, digestible, growing pig	10.1	MJ/kg DM	Feedipedia
Olive	Olive pits	Exhausted	Proximates	Energy, digestible, growing pig	0	MJ/kg DM	Feedipedia
Olive	Olive kernels	Exhausted	Proximates	Energy, digestible, growing pig	13.6	MJ/kg DM	Feedipedia
Olive	Olive skins		Proximates	Energy, digestible, growing pig	9.6	MJ/kg DM	Feedipedia
Olive	Olive oil vegetation water		Proximates	Energy, digestible, growing pig	13.7	MJ/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Energy, digestible, growing pig	8.4	MJ/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Energy, digestible, growing pig	7.8	MJ/kg DM	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Energy, digestible, growing pig	51.4	MJ/kg DM	Feedipedia

Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Energy, digestible, growing pig	6.6	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Energy, digestible, growing pig	9.2	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Energy, digestible, growing pig	6.4	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Energy, digestible, growing pig	15.8	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Energy, digestible, growing pig	15.4	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Energy, digestible, growing pig	17.2	MJ/kg DM	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Energy, digestible, growing pig	24.3	MJ/kg DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Proximates	Energy, digestible, growing pig	12.5	MJ/kg DM	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Energy, digestible, growing pig	12.7	MJ/kg DM	Feedipedia

Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Energy, digestible, growing pig	10.9	MJ/kg DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Energy, digestible, growing pig	19.4	MJ/kg DM	Feedipedia
Pumpkin	Pumpkin	Fruits, fresh, Cucurbita sp.	Proximates	Energy, digestible, growing pig	12.4	MJ/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Energy, digestible, growing pig	7.7	MJ/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Mechanical extraction, Cucurbita sp.	Proximates	Energy, digestible, growing pig	18.4	MJ/kg DM	Feedipedia
Rape	Rape straw		Proximates	Energy, digestible, growing pig	2.6	MJ/kg DM	Feedipedia
Rape	Rapeseed hulls		Proximates	Energy, digestible, growing pig	11.2	MJ/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Energy, digestible, growing pig	13.4	MJ/kg DM	Feedipedia

Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Energy, digestible, growing pig	14.6	MJ/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Energy, digestible, growing pig	14	MJ/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Energy, digestible, growing pig	23.5	MJ/kg DM	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Energy, digestible, growing pig	8.1	MJ/kg DM	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Energy, digestible, growing pig	10.8	MJ/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Energy, digestible, growing pig	15.7	MJ/kg DM	Feedipedia
Soy	Soybean hulls		Proximates	Energy, digestible, growing pig	9.2	MJ/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Energy, digestible, growing pig	16.8	MJ/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Energy, digestible, growing pig	17.1	MJ/kg DM	Feedipedia

Soy	Soybean meal	High oil (expeller)	Proximates	Energy, digestible, growing pig	18.1	MJ/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Energy, digestible, growing pig	20.3	MJ/kg DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Energy, digestible, growing pig	20.9	MJ/kg DM	Feedipedia
Soy	Soybeans	Toasted	Proximates	Energy, digestible, growing pig	20.4	MJ/kg DM	Feedipedia
Soy	Soybeans	Extruded	Proximates	Energy, digestible, growing pig	20.2	MJ/kg DM	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Proximates	Energy, digestible, growing pig	2.7	MJ/kg DM	Feedipedia
Sunflower	Sunflower hulls		Proximates	Energy, digestible, growing pig	2.1	MJ/kg DM	Feedipedia
Sunflower	Sunflower screenings		Proximates	Energy, digestible, growing pig	4.8	MJ/kg DM	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Energy, digestible, growing pig	10.3	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Energy, digestible, growing pig	11.6	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Energy, digestible, growing pig	10.1	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Energy, digestible, growing pig	12.1	MJ/kg DM	Feedipedia
Sunflower	Sunflower seeds		Proximates	Energy, digestible, growing pig	18.1	MJ/kg DM	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Energy, digestible, growing pig	9.5	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Walnut (Juglans regia)	Proximates	Energy, digestible, growing pig	23.5	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Energy, digestible, growing pig	16	MJ/kg DM	Feedipedia

Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, high fibre	Proximates	Energy, digestible, growing pig	9	MJ/kg DM	Feedipedia
Melon	Watermelon, seeds	Decorticated. Citrullus lanatus	Proximates	Energy, digestible, growing pig	22.3	MJ/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Energy, digestible, growing pig	5.3	MJ/kg DM	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Energy, digestible, growing pig	10	MJ/kg DM	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Energy, digestible, growing pig	14.5	MJ/kg DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Energy, digestible, growing pig	14.2	MJ/kg DM	Feedipedia
Banana	Banana fruits, cooked	Mature, cooked	Proximates	Energy, digestible, growing pig	12.6	MJ/kg DM	Feedipedia
Banana	Banana fruits	Mature, without peel, fresh	Proximates	Energy, digestible, growing pig	15.2	MJ/kg DM	Feedipedia

Banana	Banana fruits	Immature, fresh	Proximates	Energy, digestible, growing pig	14.4	MJ/kg DM	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Proximates	Energy, digestible, growing pig	14.5	MJ/kg DM	Feedipedia
Banana	Banana fruits, ensiled	Immature, ensiled	Proximates	Energy, digestible, growing pig	14.8	MJ/kg DM	Feedipedia
Banana	Banana fruits	Immature, without peel, fresh	Proximates	Energy, digestible, growing pig	15.3	MJ/kg DM	Feedipedia
Banana	Banana fruits, dried	Immature, without peel, dehydrated	Proximates	Energy, digestible, growing pig	14.9	MJ/kg DM	Feedipedia
Plantain	Plantain banana fruits	Fresh	Proximates	Energy, digestible, growing pig	15.1	MJ/kg DM	Feedipedia
Plantain	Plantain banana fruits, dried	Dehydrated	Proximates	Energy, digestible, growing pig	15.1	MJ/kg DM	Feedipedia
Plantain	Plantain banana fruits	Without peel, cooked	Proximates	Energy, digestible, growing pig	15.4	MJ/kg DM	Feedipedia
Banana	Banana flour		Proximates	Energy, digestible, growing pig	15.6	MJ/kg DM	Feedipedia

Banana	Banana shoots	Fresh	Proximates	Energy, digestible, growing pig	14.4	MJ/kg DM	Feedipedia
Plantain	Plantain banana trunk	Fresh	Proximates	Energy, digestible, growing pig	8.8	MJ/kg DM	Feedipedia
Banana	Banana stalks	Fresh	Proximates	Energy, digestible, growing pig	7.4	MJ/kg DM	Feedipedia
Plantain	Plantain banana shoots	Fresh	Proximates	Energy, digestible, growing pig	16	MJ/kg DM	Feedipedia
Banana	Banana peel	Mature, fresh	Proximates	Energy, digestible, growing pig	13.8	MJ/kg DM	Feedipedia
Banana	Banana peel	Immature, fresh	Proximates	Energy, digestible, growing pig	11.4	MJ/kg DM	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Proximates	Energy, digestible, growing pig	13.4	MJ/kg DM	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Proximates	Energy, digestible, growing pig	13.6	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Energy, digestible, growing pig	15.5	MJ/kg DM	Feedipedia

Citrus, unspecified	Citrus, dried	Fruits, dried	Proximates	Energy, digestible, growing pig	13.1	MJ/kg DM	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Energy, digestible, growing pig	13.3	MJ/kg DM	Feedipedia
Lime	Lime	Fruits (Citrus aurantiifolia)	Proximates	Energy, digestible, growing pig	4.9	MJ/kg DM	Feedipedia
Grapefruit	Grapefruit	Fruits (Citrus paradisi), fresh	Proximates	Energy, digestible, growing pig	13.7	MJ/kg DM	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Energy, digestible, growing pig	10.6	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus molasses		Proximates	Energy, digestible, growing pig	14.9	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy, digestible, growing pig	12.5	MJ/kg DM	Feedipedia
Orange	Orange pulp, dried	Orange, dried	Proximates	Energy, digestible, growing pig	12.6	MJ/kg DM	Feedipedia
Orange	Orange pulp, dried	Mandarin, dried	Proximates	Energy, digestible, growing pig	13.4	MJ/kg DM	Feedipedia

Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Energy, digestible, growing pig	11	MJ/kg DM	Feedipedia
Orange	Orange pulp	Orange, fresh	Proximates	Energy, digestible, growing pig	13	MJ/kg DM	Feedipedia
Grapefruit	Grapefruit pulp	Grapefruit, fresh	Proximates	Energy, digestible, growing pig	13.7	MJ/kg DM	Feedipedia
Orange	Orange pulp	Clementine, fresh	Proximates	Energy, digestible, growing pig	14.3	MJ/kg DM	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Energy, digestible, growing pig	13.6	MJ/kg DM	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Energy, digestible, growing pig	12.5	MJ/kg DM	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Energy, digestible, growing pig	14.9	MJ/kg DM	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Energy, digestible, growing pig	12.9	MJ/kg DM	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Energy, digestible, growing pig	13.8	MJ/kg DM	Feedipedia

Grapefruit	Grapefruit peel silage	Grapefruit	Proximates	Energy, digestible, growing pig	13.3	MJ/kg DM	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Energy, digestible, growing pig	12.7	MJ/kg DM	Feedipedia
Lime	Lime peel silage	Lime	Proximates	Energy, digestible, growing pig	11.1	MJ/kg DM	Feedipedia
Lime	Lime seeds	Lime (Citrus aurantiifolia)	Proximates	Energy, digestible, growing pig	14.9	MJ/kg DM	Feedipedia
Coffee	Coffee hulls		Proximates	Energy, digestible, growing pig	6.5	MJ/kg DM	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Energy, digestible, growing pig	10.5	MJ/kg DM	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Energy, digestible, growing pig	14.2	MJ/kg DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Energy, digestible, growing pig	14.8	MJ/kg DM	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Energy, digestible, growing pig	13.8	MJ/kg DM	Feedipedia

Melon	Melon	Fruit, fresh. Cucumis melo	Proximates	Energy, digestible, growing pig	9	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Energy, digestible, growing pig	9.2	MJ/kg DM	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Energy, digestible, growing pig	10.6	MJ/kg DM	Feedipedia
Melon	Watermelon	Fruit, fresh. Citrullus lanatus	Proximates	Energy, digestible, growing pig	9.4	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Energy, digestible, growing pig	13.9	MJ/kg DM	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Energy, digestible, growing pig	14.1	MJ/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Energy, digestible, growing pig	13.3	MJ/kg DM	Feedipedia
Potato	Potato peel	Fresh	Proximates	Energy, digestible, growing pig	14.6	MJ/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Energy, digestible, growing pig	14.5	MJ/kg DM	Feedipedia

Sugar beet	Sugar beet pulp		Proximates	Energy, digestible, growing pig	10	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Energy, digestible, growing pig	10.2	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Energy, digestible, growing pig	9.8	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Energy, digestible, growing pig	13.1	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Proximates	Energy, digestible, growing pig	11.8	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Proximates	Energy, digestible, growing pig	10.1	MJ/kg DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Energy, digestible, growing pig	7.4	MJ/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Energy, digestible, growing pig	14.6	MJ/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Energy, digestible, growing pig	15.6	MJ/kg DM	Feedipedia

Potato	Sweet potato	Tubers, cooked, fresh	Proximates	Energy, digestible, growing pig	14.5	MJ/kg DM	Feedipedia
Sugar	Sugar, feed grade		Proximates	Energy, digestible, growing pig	15.4	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Energy, digestible, growing pig	10	MJ/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Energy, digestible, growing pig	3.3	MJ/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Energy, digestible, growing pig	3.2	MJ/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse pith		Proximates	Energy, digestible, growing pig	3.7	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane juice		Proximates	Energy, digestible, growing pig	17.3	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Energy, digestible, growing pig	13.3	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane, syrup-off		Proximates	Energy, digestible, growing pig	15.4	MJ/kg DM	Feedipedia

Sugar cane	Sugar cane mud	Filter press mud	Proximates	Energy, digestible, growing pig	11.6	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane mud	Rotary-filter mud	Proximates	Energy, digestible, growing pig	10.2	MJ/kg DM	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Energy, digestible, growing pig	8.9	MJ/kg DM	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Proximates	Energy, digestible, growing pig	9.8	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Energy, digestible, growing pig	17.1	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Energy, digestible, growing pig	90.1	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Energy, digestible, growing pig	18.3	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Energy, digestible, growing pig	11.4	MJ/kg DM	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Energy, digestible, growing pig	21.1	MJ/kg DM	Feedipedia

Animal by-products, unspecified	Blood meal		Proximates	Energy, digestible, growing pig	21.5	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal	Preserved with acid	Proximates	Energy, digestible, growing pig	19.1	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Blood	Chicken, fresh	Proximates	Energy, digestible, growing pig	20.2	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Blood	Moist	Proximates	Energy, digestible, growing pig	24	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Calcinated	Proximates	Energy, digestible, growing pig	1.4	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Energy, digestible, growing pig	9.7	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Energy, digestible, growing pig	2.2	MJ/kg DM	Feedipedia
Crab	Crab shells	Ground	Proximates	Energy, digestible, growing pig	6.6	MJ/kg DM	Feedipedia
Eggs	Eggshells		Proximates	Energy, digestible, growing pig	1	MJ/kg DM	Feedipedia

Poultry	Feather meal		Proximates	Energy, digestible, growing pig	20.8	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Energy, digestible, growing pig	19.5	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Energy, digestible, growing pig	18.1	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Energy, digestible, growing pig	16.5	MJ/kg DM	Feedipedia
Fish, unspecified	Fish oil		Proximates	Energy, digestible, growing pig	33.6	MJ/kg DM	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Energy, digestible, growing pig	20.1	MJ/kg DM	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Energy, digestible, growing pig	18.2	MJ/kg DM	Feedipedia
Poultry	Hatchery by product		Proximates	Energy, digestible, growing pig	8.5	MJ/kg DM	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Energy, digestible, growing pig	20.8	MJ/kg DM	Feedipedia

Lamb	Lamb hooves	Raw	Proximates	Energy, digestible, growing pig	19.7	MJ/kg DM	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Energy, digestible, growing pig	9.3	MJ/kg DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Energy, digestible, growing pig	10.3	MJ/kg DM	Feedipedia
Rabbit	Rabbit manure, dried	Dehydrated	Proximates	Energy, digestible, growing pig	9.2	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Energy, digestible, growing pig	12.1	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Energy, digestible, growing pig	11.6	MJ/kg DM	Feedipedia
Beef	Rumen content	Calves, fresh	Proximates	Energy, digestible, growing pig	7.6	MJ/kg DM	Feedipedia
Beef	Rumen content	Cattle, fresh	Proximates	Energy, digestible, growing pig	8.7	MJ/kg DM	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Energy, digestible, growing pig	11.7	MJ/kg DM	Feedipedia

Beef	Rumen content	Lambs, fresh	Proximates	Energy, digestible, growing pig	9.4	MJ/kg DM	Feedipedia
Shrimp	Shrimp heads	Fresh	Proximates	Energy, digestible, growing pig	10.3	MJ/kg DM	Feedipedia
Shrimp	Shrimp heads, dried	Dehydrated	Proximates	Energy, digestible, growing pig	12.9	MJ/kg DM	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Energy, digestible, growing pig	13.4	MJ/kg DM	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Energy, digestible, growing pig	16.8	MJ/kg DM	Feedipedia
Snail	Snail meal	With shells	Proximates	Energy, digestible, growing pig	11.7	MJ/kg DM	Feedipedia
Snail	Snail meal	Without shells	Proximates	Energy, digestible, growing pig	16.7	MJ/kg DM	Feedipedia
Whale	Whale meal		Proximates	Energy, digestible, growing pig	19	MJ/kg DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Energy, digestible, growing pig	15.3	MJ/kg DM	Feedipedia

Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Energy, digestible, growing pig	14.6	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Energy, digestible, growing pig	17.1	MJ/kg DM	Feedipedia
Bakery	Bakery and viennoiserie by products		Proximates	Energy, digestible, growing pig	17.9	MJ/kg DM	Feedipedia
Corn	Maize starch		Proximates	Energy, digestible, growing pig	17	MJ/kg DM	Feedipedia
Wheat	Wheat straw		Proximates	Energy, digestible, rabbit	3.5	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Energy, digestible, rabbit	12.1	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Energy, digestible, rabbit	15.6	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Energy, digestible, rabbit	12.1	MJ/kg DM	Feedipedia
Rice	Rice hull		Proximates	Energy, digestible, rabbit	5.9	MJ/kg DM	Feedipedia

Sorghum	Sorghum grain	All types	Proximates	Energy, digestible, rabbit	14.6	MJ/kg DM	Feedipedia
Wheat	Wheat bran		Proximates	Energy, digestible, rabbit	11.9	MJ/kg DM	Feedipedia
Wheat	Wheat germs		Proximates	Energy, digestible, rabbit	18.4	MJ/kg DM	Feedipedia
Wheat	Wheat grain		Proximates	Energy, digestible, rabbit	15.2	MJ/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Energy, digestible, rabbit	5.3	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Energy, digestible, rabbit	13.3	MJ/kg DM	Feedipedia
Cotton	Cottonseed hulls		Proximates	Energy, digestible, rabbit	5.7	MJ/kg DM	Feedipedia
Flax/linseed	Flax chaff		Proximates	Energy, digestible, rabbit	4.4	MJ/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Energy, digestible, rabbit	4.3	MJ/kg DM	Feedipedia

Flax/linseed	Linseed meal		Proximates	Energy, digestible, rabbit	15	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Energy, digestible, rabbit	13.5	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Energy, digestible, rabbit	7.1	MJ/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Energy, digestible, rabbit	23	MJ/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Energy, digestible, rabbit	15.6	MJ/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Energy, digestible, rabbit	19.8	MJ/kg DM	Feedipedia
Sunflower	Sunflower hulls		Proximates	Energy, digestible, rabbit	4.9	MJ/kg DM	Feedipedia
Sunflower	Sunflower screenings		Proximates	Energy, digestible, rabbit	4.9	MJ/kg DM	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Energy, digestible, rabbit	11.5	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Energy, digestible, rabbit	14.4	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Energy, digestible, rabbit	10.9	MJ/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Energy, digestible, rabbit	12.2	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy, digestible, rabbit	13.9	MJ/kg DM	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Energy, digestible, rabbit	4.9	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Energy, digestible, rabbit	14.2	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Energy, digestible, rabbit	12.6	MJ/kg DM	Feedipedia

Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Energy, digestible, rabbit	12.6	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Energy, digestible, rabbit	13.5	MJ/kg DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Energy, digestible, rabbit	11.4	MJ/kg DM	Feedipedia
Rice	Rice hay		Proximates	Energy, digestible, ruminants	9.8	MJ/kg DM	Feedipedia
Rice	Rice, aerial part	Fresh	Proximates	Energy, digestible, ruminants	10.3	MJ/kg DM	Feedipedia
Rice	Rice straw		Proximates	Energy, digestible, ruminants	7.2	MJ/kg DM	Feedipedia
Rice	Rice straw	Ammonia-treated	Proximates	Energy, digestible, ruminants	9	MJ/kg DM	Feedipedia
Rice	Rice straw	NaOH-treated	Proximates	Energy, digestible, ruminants	8.9	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Energy, digestible, ruminants	11.3	MJ/kg DM	Feedipedia

Sugar cane	Sugar cane stalks	Fresh	Proximates	Energy, digestible, ruminants	12	MJ/kg DM	Feedipedia
Wheat	Triticale grain		Proximates	Energy, digestible, ruminants	15.5	MJ/kg DM	Feedipedia
Wheat	Triticale straw		Proximates	Energy, digestible, ruminants	7.2	MJ/kg DM	Feedipedia
Wheat	Wheat hay		Proximates	Energy, digestible, ruminants	9.6	MJ/kg DM	Feedipedia
Wheat	Wheat straw		Proximates	Energy, digestible, ruminants	8.3	MJ/kg DM	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Energy, digestible, ruminants	11.9	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Energy, digestible, ruminants	11.1	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Energy, digestible, ruminants	15.1	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Energy, digestible, ruminants	14.2	MJ/kg DM	Feedipedia

Distillery by-products, unspecified	Pot ale syrup		Proximates	Energy, digestible, ruminants	15.4	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Energy, digestible, ruminants	12.4	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Energy, digestible, ruminants	12.6	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Energy, digestible, ruminants	13	MJ/kg DM	Feedipedia
Rice	Rice grain	Polished	Proximates	Energy, digestible, ruminants	16.2	MJ/kg DM	Feedipedia
Rice	Rice grain	Brown	Proximates	Energy, digestible, ruminants	15.8	MJ/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Energy, digestible, ruminants	12.1	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Energy, digestible, ruminants	17.9	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Energy, digestible, ruminants	15.6	MJ/kg DM	Feedipedia

Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Energy, digestible, ruminants	17.9	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Energy, digestible, ruminants	19	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Energy, digestible, ruminants	16	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Energy, digestible, ruminants	12.3	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Energy, digestible, ruminants	8.2	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Energy, digestible, ruminants	14	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Energy, digestible, ruminants	12	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Energy, digestible, ruminants	6	MJ/kg DM	Feedipedia
Rice	Rice hull		Proximates	Energy, digestible, ruminants	3.7	MJ/kg DM	Feedipedia

Rice	Rough rice, paddy rice		Proximates	Energy, digestible, ruminants	12.1	MJ/kg DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Proximates	Energy, digestible, ruminants	15.8	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Energy, digestible, ruminants	14.8	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Energy, digestible, ruminants	17.5	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Energy, digestible, ruminants	16	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Energy, digestible, ruminants	15.8	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Energy, digestible, ruminants	16.4	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Energy, digestible, ruminants	16	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Energy, digestible, ruminants	16.1	MJ/kg DM	Feedipedia

Wheat	Wheat bran		Proximates	Energy, digestible, ruminants	13.5	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Energy, digestible, ruminants	16.1	MJ/kg DM	Feedipedia
Wheat	Wheat germs		Proximates	Energy, digestible, ruminants	17.6	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Proximates	Energy, digestible, ruminants	10.5	MJ/kg DM	Feedipedia
Wheat	Wheat grain		Proximates	Energy, digestible, ruminants	15.6	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Energy, digestible, ruminants	15.8	MJ/kg DM	Feedipedia
Wheat	Wheat screenings		Proximates	Energy, digestible, ruminants	14.9	MJ/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Energy, digestible, ruminants	6.7	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Energy, digestible, ruminants	15.9	MJ/kg DM	Feedipedia

Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Energy, digestible, ruminants	14.5	MJ/kg DM	Feedipedia
Cotton	Cotton straw		Proximates	Energy, digestible, ruminants	6.4	MJ/kg DM	Feedipedia
Cotton	Cottonseed hulls		Proximates	Energy, digestible, ruminants	8.2	MJ/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Energy, digestible, ruminants	17.5	MJ/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Energy, digestible, ruminants	15.5	MJ/kg DM	Feedipedia
Flax/linseed	Flax straw		Proximates	Energy, digestible, ruminants	7.3	MJ/kg DM	Feedipedia
Flax/linseed	Flax chaff		Proximates	Energy, digestible, ruminants	8.3	MJ/kg DM	Feedipedia
Flax/linseed	Flax shives		Proximates	Energy, digestible, ruminants	6.7	MJ/kg DM	Feedipedia
Flax/linseed	Flax hay		Proximates	Energy, digestible, ruminants	11	MJ/kg DM	Feedipedia

Grape	Grape seed oil meal	Oil <5%	Proximates	Energy, digestible, ruminants	4.8	MJ/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Proximates	Energy, digestible, ruminants	7.7	MJ/kg DM	Feedipedia
Flax/linseed	Linseed meal		Proximates	Energy, digestible, ruminants	16.2	MJ/kg DM	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Energy, digestible, ruminants	15	MJ/kg DM	Feedipedia
Flax/linseed	Linseeds		Proximates	Energy, digestible, ruminants	22.6	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Energy, digestible, ruminants	16.3	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Energy, digestible, ruminants	15.3	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Energy, digestible, ruminants	17.7	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Energy, digestible, ruminants	14.3	MJ/kg DM	Feedipedia

Corn	Maize germ	Oil <30%	Proximates	Energy, digestible, ruminants	19.6	MJ/kg DM	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Energy, digestible, ruminants	24.5	MJ/kg DM	Feedipedia
Palm	Oil palm kernels		Proximates	Energy, digestible, ruminants	23.1	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Energy, digestible, ruminants	5.1	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Energy, digestible, ruminants	7.7	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Energy, digestible, ruminants	4.4	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Proximates	Energy, digestible, ruminants	7.6	MJ/kg DM	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Energy, digestible, ruminants	13.6	MJ/kg DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Energy, digestible, ruminants	8.6	MJ/kg DM	Feedipedia

Palm	Palm kernel meal	Mechanical extraction	Proximates	Energy, digestible, ruminants	14.3	MJ/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Energy, digestible, ruminants	13.3	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Energy, digestible, ruminants	9.8	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Energy, digestible, ruminants	11.7	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Energy, digestible, ruminants	3.4	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Energy, digestible, ruminants	16.9	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Energy, digestible, ruminants	16.7	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Energy, digestible, ruminants	18.5	MJ/kg DM	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Energy, digestible, ruminants	28.8	MJ/kg DM	Feedipedia

Peanuts	Peanuts, with shells	With shells	Proximates	Energy, digestible, ruminants	22.9	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Energy, digestible, ruminants	12.9	MJ/kg DM	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Energy, digestible, ruminants	14.4	MJ/kg DM	Feedipedia
Rape	Rape forage	Fresh	Proximates	Energy, digestible, ruminants	13.6	MJ/kg DM	Feedipedia
Rape	Rape forage, dried	Dehydrated	Proximates	Energy, digestible, ruminants	11	MJ/kg DM	Feedipedia
Rape	Rape straw		Proximates	Energy, digestible, ruminants	6.7	MJ/kg DM	Feedipedia
Rape	Rapeseed hulls		Proximates	Energy, digestible, ruminants	11.6	MJ/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Energy, digestible, ruminants	14.7	MJ/kg DM	Feedipedia

Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Energy, digestible, ruminants	16.1	MJ/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Energy, digestible, ruminants	15.2	MJ/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Energy, digestible, ruminants	25	MJ/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Energy, digestible, ruminants	16.6	MJ/kg DM	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Energy, digestible, ruminants	11.6	MJ/kg DM	Feedipedia
Soy	Soybean hay		Proximates	Energy, digestible, ruminants	10.9	MJ/kg DM	Feedipedia
Soy	Soybean straw		Proximates	Energy, digestible, ruminants	9.4	MJ/kg DM	Feedipedia
Soy	Soybean hulls		Proximates	Energy, digestible, ruminants	14.5	MJ/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Energy, digestible, ruminants	18.2	MJ/kg DM	Feedipedia

Soy	Soybean meal	High protein (non-dehulled)	Proximates	Energy, digestible, ruminants	18.2	MJ/kg DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Energy, digestible, ruminants	19.4	MJ/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Energy, digestible, ruminants	19.8	MJ/kg DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Energy, digestible, ruminants	20	MJ/kg DM	Feedipedia
Soy	Soybeans	Toasted	Proximates	Energy, digestible, ruminants	19.9	MJ/kg DM	Feedipedia
Soy	Soybeans	Extruded	Proximates	Energy, digestible, ruminants	19.6	MJ/kg DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Energy, digestible, ruminants	11	MJ/kg DM	Feedipedia
Sunflower	Sunflower forage	Silage	Proximates	Energy, digestible, ruminants	11.3	MJ/kg DM	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Proximates	Energy, digestible, ruminants	7.8	MJ/kg DM	Feedipedia

Sunflower	Sunflower heads	Without seeds	Proximates	Energy, digestible, ruminants	10.4	MJ/kg DM	Feedipedia
Sunflower	Sunflower stalks		Proximates	Energy, digestible, ruminants	8.2	MJ/kg DM	Feedipedia
Sunflower	Sunflower screenings		Proximates	Energy, digestible, ruminants	10.1	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Energy, digestible, ruminants	11.8	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Energy, digestible, ruminants	12.7	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Energy, digestible, ruminants	11.7	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Energy, digestible, ruminants	14	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Walnut (Juglans regia)	Proximates	Energy, digestible, ruminants	5.2	MJ/kg DM	Feedipedia

Apple	Apple pomace, dried	Dehydrated	Proximates	Energy, digestible, ruminants	10.4	MJ/kg DM	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Energy, digestible, ruminants	12.8	MJ/kg DM	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Energy, digestible, ruminants	13.9	MJ/kg DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Energy, digestible, ruminants	13.3	MJ/kg DM	Feedipedia
Banana	Banana	Aerial part, fresh	Proximates	Energy, digestible, ruminants	12.4	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Energy, digestible, ruminants	16.4	MJ/kg DM	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Energy, digestible, ruminants	15.8	MJ/kg DM	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Energy, digestible, ruminants	12.3	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy, digestible, ruminants	14.5	MJ/kg DM	Feedipedia

Orange	Orange pulp, dried	Orange, dried	Proximates	Energy, digestible, ruminants	14.6	MJ/kg DM	Feedipedia
Orange	Orange pulp, dried	Mandarin, dried	Proximates	Energy, digestible, ruminants	15.8	MJ/kg DM	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Energy, digestible, ruminants	12.4	MJ/kg DM	Feedipedia
Orange	Orange pulp	Orange, fresh	Proximates	Energy, digestible, ruminants	16.2	MJ/kg DM	Feedipedia
Grapefruit	Grapefruit pulp	Grapefruit, fresh	Proximates	Energy, digestible, ruminants	15.9	MJ/kg DM	Feedipedia
Orange	Orange pulp	Clementine, fresh	Proximates	Energy, digestible, ruminants	16.7	MJ/kg DM	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Energy, digestible, ruminants	16.7	MJ/kg DM	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Energy, digestible, ruminants	16.1	MJ/kg DM	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Energy, digestible, ruminants	17.3	MJ/kg DM	Feedipedia

Orange	Orange peel silage	Orange	Proximates	Energy, digestible, ruminants	15.1	MJ/kg DM	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Energy, digestible, ruminants	16.1	MJ/kg DM	Feedipedia
Grapefruit	Grapefruit peel silage	Grapefruit	Proximates	Energy, digestible, ruminants	15.6	MJ/kg DM	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Energy, digestible, ruminants	15	MJ/kg DM	Feedipedia
Lime	Lime peel silage	Lime	Proximates	Energy, digestible, ruminants	13.1	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus seed meal		Proximates	Energy, digestible, ruminants	14.8	MJ/kg DM	Feedipedia
Coffee	Instant coffee by product		Proximates	Energy, digestible, ruminants	9.4	MJ/kg DM	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Energy, digestible, ruminants	14	MJ/kg DM	Feedipedia
Date	Date palm leaves	Fresh	Proximates	Energy, digestible, ruminants	7.3	MJ/kg DM	Feedipedia

Date	Date palm leaves, dried	Dry	Proximates	Energy, digestible, ruminants	6.9	MJ/kg DM	Feedipedia
Date	Date palm pedicels		Proximates	Energy, digestible, ruminants	8.1	MJ/kg DM	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Energy, digestible, ruminants	5.3	MJ/kg DM	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Energy, digestible, ruminants	5.6	MJ/kg DM	Feedipedia
Grape	Grape pomace	Silage	Proximates	Energy, digestible, ruminants	4.5	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Energy, digestible, ruminants	13.7	MJ/kg DM	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Energy, digestible, ruminants	14.2	MJ/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Energy, digestible, ruminants	14.8	MJ/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Energy, digestible, ruminants	14.7	MJ/kg DM	Feedipedia

Sugar beet	Sugar beet pulp		Proximates	Energy, digestible, ruminants	13.6	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Energy, digestible, ruminants	13.8	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Energy, digestible, ruminants	13.6	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Proximates	Energy, digestible, ruminants	13.4	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Energy, digestible, ruminants	14.8	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Proximates	Energy, digestible, ruminants	11.4	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Proximates	Energy, digestible, ruminants	10.5	MJ/kg DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Energy, digestible, ruminants	10.8	MJ/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Energy, digestible, ruminants	14.1	MJ/kg DM	Feedipedia

Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Energy, digestible, ruminants	14.3	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Energy, digestible, ruminants	13.6	MJ/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Energy, digestible, ruminants	8.6	MJ/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Energy, digestible, ruminants	7.9	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Energy, digestible, ruminants	11.3	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Energy, digestible, ruminants	9.8	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane tops	Silage	Proximates	Energy, digestible, ruminants	9.6	MJ/kg DM	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Energy, digestible, ruminants	14	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Energy, digestible, ruminants	14.5	MJ/kg DM	Feedipedia

Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Energy, digestible, ruminants	15.4	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Energy, digestible, ruminants	16.8	MJ/kg DM	Feedipedia
Poultry	Feather meal		Proximates	Energy, digestible, ruminants	19.4	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Energy, digestible, ruminants	21.3	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Energy, digestible, ruminants	19.6	MJ/kg DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Energy, digestible, ruminants	11.6	MJ/kg DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Energy, digestible, ruminants	14.7	MJ/kg DM	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Energy, digestible, ruminants	14	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Energy, digestible, ruminants	17.6	MJ/kg DM	Feedipedia

Wheat	Wheat starch		Proximates	Energy, digestible, salmonids	6.9	MJ/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Energy, digestible, salmonids	12.2	MJ/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Energy, digestible, salmonids	12.5	MJ/kg DM	Feedipedia
Fish, unspecified	Fish oil		Proximates	Energy, digestible, salmonids	96.4	MJ/kg DM	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Energy, digestible, salmonids	16.8	MJ/kg DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Energy, digestible, salmonids	13.3	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Energy, digestible, salmonids	13.7	MJ/kg DM	Feedipedia

Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Energy, gross	10.53	KJ/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Energy, gross	10.31	KJ/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Energy, gross	10.27	KJ/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Beef	Rumen content	Abattoir waste	Proximates	Energy, gross	12.6	KJ/g	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Energy, gross	17.6	KJ/g	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Energy, gross	21.8	KJ/g	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Sugar beet	Sugar beet molasses	From pulp	Proximates	Energy, gross	17.3	MJ/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Energy, gross	16.7	MJ/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Energy, gross	16.6	MJ/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Grape	Grape marc	Grape marc from Gonzlez-Byass	Proximates	Energy, gross	20.3	MJ/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc	Grape marc from Movialsa	Proximates	Energy, gross	17.6	MJ/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape vine shoot		Proximates	Energy, gross	18.5	MJ/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	White	Proximates	Energy, gross	10.6	MJ/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Red	Proximates	Energy, gross	13.7	MJ/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Sherry	Proximates	Energy, gross	10.3	MJ/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape marc and lees		Proximates	Energy, gross	17.3	MJ/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Fish, unspecified	Fish meal		Proximates	Energy, gross	22.2	MJ/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Energy, gross	21.3	MJ/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Energy, gross	19.9	MJ/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Energy, gross	19.1	MJ/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Energy, gross	22.5	MJ/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Energy, gross	18.7	MJ/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Olive	Olive leaves		Proximates	Energy, gross	16.8	MJ/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy, gross	17.87	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Energy, gross	16.23	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon, dried	Whole	Proximates	Energy, gross	20.08	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Energy, gross	21.2	MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Energy, gross	21	MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Energy, gross	21.4	MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Energy, gross	21.7	MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Energy, gross	21.1	MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Energy, gross	20.9	MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Energy, gross	21.5	MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Energy, gross	20.7	MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Distillery by-products, unspecified	Distillers solids	Wet	Proximates	Energy, gross	22.72	MJ/kg DM	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs

Orange	Bergamot peel		Proximates	Energy, gross	15.94	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Rice	Rice hay		Proximates	Energy, gross	16.7	MJ/kg DM	Feedipedia
Rice	Rice, aerial part	Fresh	Proximates	Energy, gross	16.2	MJ/kg DM	Feedipedia
Rice	Rice straw		Proximates	Energy, gross	15.5	MJ/kg DM	Feedipedia
Rice	Rice straw	Urea-treated	Proximates	Energy, gross	16	MJ/kg DM	Feedipedia
Rice	Rice straw	NaOH-treated	Proximates	Energy, gross	15.2	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Energy, gross	18.2	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Energy, gross	18.1	MJ/kg DM	Feedipedia
Wheat	Triticale grain		Proximates	Energy, gross	18.1	MJ/kg DM	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Energy, gross	18.3	MJ/kg DM	Feedipedia
Wheat	Triticale straw		Proximates	Energy, gross	18.7	MJ/kg DM	Feedipedia
Wheat	Wheat hay		Proximates	Energy, gross	17.6	MJ/kg DM	Feedipedia
Wheat	Wheat straw		Proximates	Energy, gross	18.5	MJ/kg DM	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Energy, gross	17.9	MJ/kg DM	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Energy, gross	16.7	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Energy, gross	21.5	MJ/kg DM	Feedipedia

Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Energy, gross	21.3	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Energy, gross	21.2	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Energy, gross	20	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Energy, gross	19.7	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Energy, gross	20.3	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Energy, gross	20.6	MJ/kg DM	Feedipedia
Rice	Rice grain	Polished	Proximates	Energy, gross	18	MJ/kg DM	Feedipedia
Rice	Rice grain	Polished, parboiled	Proximates	Energy, gross	17.7	MJ/kg DM	Feedipedia
Rice	Rice grain	Brown	Proximates	Energy, gross	18.2	MJ/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Energy, gross	18.4	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Energy, gross	211.4	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Energy, gross	21	MJ/kg DM	Feedipedia

Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Energy, gross	19.2	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Energy, gross	21.7	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Energy, gross	20.5	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Energy, gross	21.2	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Energy, gross	20.2	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Energy, gross	19.3	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Energy, gross	17.9	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Energy, gross	17.1	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Energy, gross	17	MJ/kg DM	Feedipedia
Rice	Rice hull		Proximates	Energy, gross	16.3	MJ/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Energy, gross	17.6	MJ/kg DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Proximates	Energy, gross	18.8	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Energy, gross	19.3	MJ/kg DM	Feedipedia
Sorghum	Malted sorghum sprouts		Proximates	Energy, gross	18.5	MJ/kg DM	Feedipedia

Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Energy, gross	20.9	MJ/kg DM	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Energy, gross	19.6	MJ/kg DM	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Energy, gross	21.4	MJ/kg DM	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Energy, gross	22	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Energy, gross	18.8	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Energy, gross	18.9	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Energy, gross	18.9	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Energy, gross	18.9	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Energy, gross	18.9	MJ/kg DM	Feedipedia
Wheat	Wheat starch		Proximates	Energy, gross	17.6	MJ/kg DM	Feedipedia
Wheat	Wheat bran		Proximates	Energy, gross	18.9	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Energy, gross	20.5	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Energy, gross	20.2	MJ/kg DM	Feedipedia
Wheat	Wheat germs		Proximates	Energy, gross	20.6	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Proximates	Energy, gross	17.6	MJ/kg DM	Feedipedia
Wheat	Wheat grain		Proximates	Energy, gross	18.2	MJ/kg DM	Feedipedia

Wheat	Wheat grain	Durum	Proximates	Energy, gross	18.5	MJ/kg DM	Feedipedia
Wheat	Wheat screenings		Proximates	Energy, gross	18.1	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Almond	Proximates	Energy, gross	30.7	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Almond, dehulled, mechanical extraction	Proximates	Energy, gross	18.9	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Almond, with hulls, mechanical extraction	Proximates	Energy, gross	20.2	MJ/kg DM	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Proximates	Energy, gross	18	MJ/kg DM	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Proximates	Energy, gross	18.2	MJ/kg DM	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Proximates	Energy, gross	22.8	MJ/kg DM	Feedipedia
Argan	Argan oil cake	Solvent-extracted, Argania spinosa	Proximates	Energy, gross	19.8	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Energy, gross	27.9	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Proximates	Energy, gross	22.4	MJ/kg DM	Feedipedia

Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Energy, gross	20.6	MJ/kg DM	Feedipedia
Castor	Castor hulls	Ricinus communis	Proximates	Energy, gross	19.5	MJ/kg DM	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Energy, gross	19.9	MJ/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Energy, gross	18.8	MJ/kg DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Energy, gross	18.5	MJ/kg DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Energy, gross	17.4	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Energy, gross	20.1	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Energy, gross	18.7	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Fresh	Proximates	Energy, gross	32.1	MJ/kg DM	Feedipedia
Coconut	Coconut coir dust		Proximates	Energy, gross	17.5	MJ/kg DM	Feedipedia
Coconut	Coconut water		Proximates	Energy, gross	16.9	MJ/kg DM	Feedipedia
Cotton	Cotton straw		Proximates	Energy, gross	18.8	MJ/kg DM	Feedipedia
Cotton	Cotton leaves	Fresh	Proximates	Energy, gross	19	MJ/kg DM	Feedipedia
Cotton	Cottonseed hulls		Proximates	Energy, gross	19.8	MJ/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Energy, gross	20	MJ/kg DM	Feedipedia

Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Energy, gross	21.2	MJ/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Energy, gross	21.5	MJ/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Energy, gross	19.9	MJ/kg DM	Feedipedia
Flax/linseed	Flax straw		Proximates	Energy, gross	18.9	MJ/kg DM	Feedipedia
Flax/linseed	Flax chaff		Proximates	Energy, gross	17.8	MJ/kg DM	Feedipedia
Flax/linseed	Flax shives		Proximates	Energy, gross	19.5	MJ/kg DM	Feedipedia
Flax/linseed	Flax, aerial part	Fresh	Proximates	Energy, gross	18.7	MJ/kg DM	Feedipedia
Flax/linseed	Flax hay		Proximates	Energy, gross	19	MJ/kg DM	Feedipedia
Grape	Grape seeds		Proximates	Energy, gross	21.8	MJ/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Energy, gross	19.5	MJ/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Proximates	Energy, gross	19.9	MJ/kg DM	Feedipedia
Flax/linseed	Linseed meal		Proximates	Energy, gross	20.7	MJ/kg DM	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Energy, gross	19.4	MJ/kg DM	Feedipedia
Flax/linseed	Linseeds		Proximates	Energy, gross	27.1	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Energy, gross	20.7	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Energy, gross	19.5	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Energy, gross	20.7	MJ/kg DM	Feedipedia

Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Energy, gross	17.7	MJ/kg DM	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Energy, gross	22.5	MJ/kg DM	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Energy, gross	28.9	MJ/kg DM	Feedipedia
Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Proximates	Energy, gross	20.3	MJ/kg DM	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Energy, gross	18.7	MJ/kg DM	Feedipedia
Mustard	Mustard seeds	Brassica sp.	Proximates	Energy, gross	28.4	MJ/kg DM	Feedipedia
Palm	Oil palm kernels		Proximates	Energy, gross	28.4	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Energy, gross	20.8	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Energy, gross	20.6	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Energy, gross	18.6	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Proximates	Energy, gross	18.8	MJ/kg DM	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Energy, gross	25.4	MJ/kg DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Energy, gross	18.4	MJ/kg DM	Feedipedia
Olive	Olive pits	Exhausted	Proximates	Energy, gross	20.2	MJ/kg DM	Feedipedia
Olive	Olive kernels	Exhausted	Proximates	Energy, gross	20.6	MJ/kg DM	Feedipedia
Olive	Olive skins		Proximates	Energy, gross	21	MJ/kg DM	Feedipedia

Olive	Olive oil vegetation water		Proximates	Energy, gross	15.3	MJ/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Energy, gross	20.1	MJ/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Energy, gross	18.8	MJ/kg DM	Feedipedia
Palm	Palm oil mill effluent	Decanted	Proximates	Energy, gross	23.1	MJ/kg DM	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Energy, gross	18	MJ/kg DM	Feedipedia
Palm	Palm press fibre	High oil	Proximates	Energy, gross	23.5	MJ/kg DM	Feedipedia
Palm	Palm press fibre	Low oil	Proximates	Energy, gross	18.3	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Energy, gross	17.8	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Energy, gross	16.7	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Energy, gross	19.8	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Energy, gross	20	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Energy, gross	20.2	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Energy, gross	21.7	MJ/kg DM	Feedipedia

Peanuts	Peanuts	Without shells	Proximates	Energy, gross	29.3	MJ/kg DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Proximates	Energy, gross	25.9	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Energy, gross	21.8	MJ/kg DM	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Energy, gross	19.9	MJ/kg DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Energy, gross	18.1	MJ/kg DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Energy, gross	26.8	MJ/kg DM	Feedipedia
Pumpkin	Pumpkin	Fruits, fresh, Cucurbita sp.	Proximates	Energy, gross	17.8	MJ/kg DM	Feedipedia
Pumpkin	Pumpkin	Fruits, dried, Cucurbita sp.	Proximates	Energy, gross	18.8	MJ/kg DM	Feedipedia
Pumpkin	Pumpkin hulls	Cucurbita sp.	Proximates	Energy, gross	22.1	MJ/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Energy, gross	21	MJ/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Mechanical extraction, Cucurbita sp.	Proximates	Energy, gross	22.6	MJ/kg DM	Feedipedia

Pumpkin	Pumpkin seeds	With hulls, Cucurbita sp.	Proximates	Energy, gross	27.8	MJ/kg DM	Feedipedia
Pumpkin	Pumpkin seeds	Without hulls, Cucurbita sp.	Proximates	Energy, gross	29.8	MJ/kg DM	Feedipedia
Rape	Rape forage	Fresh	Proximates	Energy, gross	17	MJ/kg DM	Feedipedia
Rape	Rape forage, dried	Dehydrated	Proximates	Energy, gross	16.9	MJ/kg DM	Feedipedia
Rape	Rape straw		Proximates	Energy, gross	18.4	MJ/kg DM	Feedipedia
Rape	Rapeseed hulls		Proximates	Energy, gross	21.3	MJ/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Energy, gross	19.4	MJ/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Energy, gross	20.8	MJ/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Energy, gross	19.6	MJ/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Energy, gross	28.8	MJ/kg DM	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Energy, gross	20.5	MJ/kg DM	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Energy, gross	21.4	MJ/kg DM	Feedipedia

Safflower	Safflower meal	Without hulls, expeller extraction. Carthamus tinctorius	Proximates	Energy, gross	21.2	MJ/kg DM	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Energy, gross	26.1	MJ/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Energy, gross	20.6	MJ/kg DM	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Energy, gross	18.9	MJ/kg DM	Feedipedia
Sesame	Sesame seeds	Whole	Proximates	Energy, gross	29.1	MJ/kg DM	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Energy, gross	18.9	MJ/kg DM	Feedipedia
Soy	Soybean hay		Proximates	Energy, gross	19.6	MJ/kg DM	Feedipedia
Soy	Soybean straw		Proximates	Energy, gross	19	MJ/kg DM	Feedipedia
Soy	Soybean hulls		Proximates	Energy, gross	18.2	MJ/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Energy, gross	19.7	MJ/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Energy, gross	19.7	MJ/kg DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Energy, gross	20.8	MJ/kg DM	Feedipedia

Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Energy, gross	23.6	MJ/kg DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Energy, gross	23.6	MJ/kg DM	Feedipedia
Soy	Soybeans	Toasted	Proximates	Energy, gross	23.8	MJ/kg DM	Feedipedia
Soy	Soybeans	Extruded	Proximates	Energy, gross	23.5	MJ/kg DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Energy, gross	17.3	MJ/kg DM	Feedipedia
Sunflower	Sunflower forage	Silage	Proximates	Energy, gross	18	MJ/kg DM	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Proximates	Energy, gross	18.3	MJ/kg DM	Feedipedia
Sunflower	Sunflower heads	Without seeds	Proximates	Energy, gross	17.7	MJ/kg DM	Feedipedia
Sunflower	Sunflower stalks		Proximates	Energy, gross	17.4	MJ/kg DM	Feedipedia
Sunflower	Sunflower hulls		Proximates	Energy, gross	20.2	MJ/kg DM	Feedipedia
Sunflower	Sunflower screenings		Proximates	Energy, gross	20.1	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Energy, gross	19.4	MJ/kg DM	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Energy, gross	19.3	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Energy, gross	19.4	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Energy, gross	21.8	MJ/kg DM	Feedipedia
Sunflower	Sunflower seeds		Proximates	Energy, gross	28.7	MJ/kg DM	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Energy, gross	20.8	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Walnut (Juglans regia)	Proximates	Energy, gross	19.7	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Walnut (Juglans regia)	Proximates	Energy, gross	31	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Energy, gross	19.1	MJ/kg DM	Feedipedia

Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Proximates	Energy, gross	24.6	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, high fibre	Proximates	Energy, gross	21.7	MJ/kg DM	Feedipedia
Melon	Watermelon, hulls	Citrullus lanatus	Proximates	Energy, gross	19.6	MJ/kg DM	Feedipedia
Melon	Watermelon, seeds	Decorticated. Citrullus lanatus	Proximates	Energy, gross	28.9	MJ/kg DM	Feedipedia
Melon	Watermelon, seeds	Whole. Citrullus lanatus	Proximates	Energy, gross	27	MJ/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Energy, gross	19.4	MJ/kg DM	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Energy, gross	19	MJ/kg DM	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Energy, gross	17.4	MJ/kg DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Energy, gross	17.1	MJ/kg DM	Feedipedia
Banana	Banana fruits	Mature, without peel, fresh	Proximates	Energy, gross	16.9	MJ/kg DM	Feedipedia

Banana	Banana fruits	Immature, fresh	Proximates	Energy, gross	17.2	MJ/kg DM	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Proximates	Energy, gross	17.3	MJ/kg DM	Feedipedia
Banana	Banana fruits, ensiled	Immature, ensiled	Proximates	Energy, gross	17.7	MJ/kg DM	Feedipedia
Banana	Banana fruits	Immature, without peel, fresh	Proximates	Energy, gross	17.4	MJ/kg DM	Feedipedia
Banana	Banana fruits, dried	Immature, without peel, dehydrated	Proximates	Energy, gross	17.1	MJ/kg DM	Feedipedia
Plantain	Plantain banana fruits	Fresh	Proximates	Energy, gross	17.1	MJ/kg DM	Feedipedia
Plantain	Plantain banana fruits, dried	Dehydrated	Proximates	Energy, gross	17.4	MJ/kg DM	Feedipedia
Plantain	Plantain banana fruits	Without peel, cooked	Proximates	Energy, gross	17.3	MJ/kg DM	Feedipedia
Banana	Banana flour		Proximates	Energy, gross	18.5	MJ/kg DM	Feedipedia
Banana	Banana shoots	Fresh	Proximates	Energy, gross	17.9	MJ/kg DM	Feedipedia
Plantain	Plantain banana trunk	Fresh	Proximates	Energy, gross	16.7	MJ/kg DM	Feedipedia
Banana	Banana leaves, dried	Dehydrated	Proximates	Energy, gross	19.3	MJ/kg DM	Feedipedia
Banana	Banana stalks	Fresh	Proximates	Energy, gross	16.6	MJ/kg DM	Feedipedia

Banana	Banana	Aerial part, fresh	Proximates	Energy, gross	17.7	MJ/kg DM	Feedipedia
Plantain	Plantain banana shoots	Fresh	Proximates	Energy, gross	17.1	MJ/kg DM	Feedipedia
Plantain	Plantain banana leaves	Fresh	Proximates	Energy, gross	18.1	MJ/kg DM	Feedipedia
Banana	Banana peel	Mature, fresh	Proximates	Energy, gross	18.4	MJ/kg DM	Feedipedia
Banana	Banana peel	Immature, fresh	Proximates	Energy, gross	17.2	MJ/kg DM	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Proximates	Energy, gross	17.5	MJ/kg DM	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Proximates	Energy, gross	17.3	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Energy, gross	18.1	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus, dried	Fruits, dried	Proximates	Energy, gross	18.1	MJ/kg DM	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Energy, gross	17.6	MJ/kg DM	Feedipedia
Lime	Lime	Fruits (Citrus aurantiifolia)	Proximates	Energy, gross	20.5	MJ/kg DM	Feedipedia
Grapefruit	Grapefruit	Fruits (Citrus paradisi), fresh	Proximates	Energy, gross	17.9	MJ/kg DM	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Energy, gross	16.5	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus molasses		Proximates	Energy, gross	16.5	MJ/kg DM	Feedipedia

Citrus, unspecified	Citrus pulp, dried		Proximates	Energy, gross	17.3	MJ/kg DM	Feedipedia
Orange	Orange pulp, dried		Proximates	Energy, gross	17.2	MJ/kg DM	Feedipedia
Orange	Orange pulp, dried	Mandarin	Proximates	Energy, gross	18.5	MJ/kg DM	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Energy, gross	14.8	MJ/kg DM	Feedipedia
Orange	Orange pulp	Orange, fresh	Proximates	Energy, gross	18.1	MJ/kg DM	Feedipedia
Grapefruit	Grapefruit pulp	Grapefruit, fresh	Proximates	Energy, gross	18	MJ/kg DM	Feedipedia
Orange	Orange pulp	Clementine, fresh	Proximates	Energy, gross	17.9	MJ/kg DM	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Energy, gross	18.6	MJ/kg DM	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Energy, gross	18	MJ/kg DM	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Energy, gross	18.3	MJ/kg DM	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Energy, gross	18.1	MJ/kg DM	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Energy, gross	18.2	MJ/kg DM	Feedipedia
Grapefruit	Grapefruit peel silage	Grapefruit	Proximates	Energy, gross	18.3	MJ/kg DM	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Energy, gross	18.6	MJ/kg DM	Feedipedia
Lime	Lime peel silage	Lime	Proximates	Energy, gross	17.6	MJ/kg DM	Feedipedia

Citrus, unspecified	Citrus seed meal		Proximates	Energy, gross	19.3	MJ/kg DM	Feedipedia
Lime	Lime seeds	Lime (Citrus aurantiifolia)	Proximates	Energy, gross	21.5	MJ/kg DM	Feedipedia
Coffee	Coffee hulls		Proximates	Energy, gross	19.5	MJ/kg DM	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Energy, gross	17.2	MJ/kg DM	Feedipedia
Coffee	Instant coffee by product		Proximates	Energy, gross	25	MJ/kg DM	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Energy, gross	17.6	MJ/kg DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Energy, gross	17.4	MJ/kg DM	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Energy, gross	17.6	MJ/kg DM	Feedipedia
Date	Date palm leaves	Fresh	Proximates	Energy, gross	17.3	MJ/kg DM	Feedipedia
Date	Date palm leaves, dried	Dry	Proximates	Energy, gross	16.9	MJ/kg DM	Feedipedia
Date	Date palm pedicels		Proximates	Energy, gross	18.2	MJ/kg DM	Feedipedia
Date	Date palm flower stems		Proximates	Energy, gross	17.6	MJ/kg DM	Feedipedia

Grape	Grape pomace, dried	Dehydrated	Proximates	Energy, gross	19.1	MJ/kg DM	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Energy, gross	18.8	MJ/kg DM	Feedipedia
Grape	Grape pomace	Silage	Proximates	Energy, gross	19.4	MJ/kg DM	Feedipedia
Melon	Melon	Aerial part, fresh. Cucumis melo	Proximates	Energy, gross	19.7	MJ/kg DM	Feedipedia
Melon	Melon	Fruit, fresh. Cucumis melo	Proximates	Energy, gross	17.5	MJ/kg DM	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Energy, gross	17	MJ/kg DM	Feedipedia
Pineapple	Pineapple leaves	Fresh, Ananas comosus	Proximates	Energy, gross	18.2	MJ/kg DM	Feedipedia
Pineapple	Pineapple leaves	Silage, Ananas comosus	Proximates	Energy, gross	17.5	MJ/kg DM	Feedipedia
Tomatoes	Tomato, leaves	Fresh	Proximates	Energy, gross	10.3	MJ/kg DM	Feedipedia
Melon	Watermelon	Aerial part, fresh. Citrullus lanatus	Proximates	Energy, gross	16.5	MJ/kg DM	Feedipedia
Melon	Watermelon	Fruit, fresh. Citrullus lanatus	Proximates	Energy, gross	19.5	MJ/kg DM	Feedipedia

Sugar beet	Sugar beet molasses		Proximates	Energy, gross	15.5	MJ/kg DM	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Energy, gross	17.1	MJ/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Energy, gross	17.7	MJ/kg DM	Feedipedia
Carrot	Carrot tops	Fresh	Proximates	Energy, gross	16.1	MJ/kg DM	Feedipedia
Potato	Potato, aerial part	Ensiled	Proximates	Energy, gross	17.2	MJ/kg DM	Feedipedia
Potato	Potato leaves, dried	Dried	Proximates	Energy, gross	19.3	MJ/kg DM	Feedipedia
Potato	Potato aerial part	Fresh	Proximates	Energy, gross	17.7	MJ/kg DM	Feedipedia
Potato	Potato peel	Fresh	Proximates	Energy, gross	17.2	MJ/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Energy, gross	16.9	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Energy, gross	17	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Energy, gross	17.1	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Energy, gross	17.1	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Proximates	Energy, gross	17	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Energy, gross	16.9	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Proximates	Energy, gross	16.1	MJ/kg DM	Feedipedia

Sugar beet	Sugar beet leaves and tops	Fresh	Proximates	Energy, gross	16.7	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Energy, gross	15.6	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet tops	Silage	Proximates	Energy, gross	15.7	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Proximates	Energy, gross	15.2	MJ/kg DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Energy, gross	18.3	MJ/kg DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Energy, gross	17.5	MJ/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Energy, gross	17.4	MJ/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Energy, gross	17.4	MJ/kg DM	Feedipedia
Potato	Sweet potato	Tubers, cooked, fresh	Proximates	Energy, gross	15.6	MJ/kg DM	Feedipedia
Sugar	Sugar, feed grade		Proximates	Energy, gross	17.1	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Energy, gross	17	MJ/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Energy, gross	18.4	MJ/kg DM	Feedipedia

Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Energy, gross	18.6	MJ/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse	NaOH-treated, fresh	Proximates	Energy, gross	16.7	MJ/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse pith		Proximates	Energy, gross	19.2	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane juice		Proximates	Energy, gross	17.5	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Energy, gross	14.7	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane, syrup-off		Proximates	Energy, gross	17.1	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane mud	Filter press mud	Proximates	Energy, gross	16.4	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane mud	Rotary-filter mud	Proximates	Energy, gross	18.1	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Energy, gross	18	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane tops	Silage	Proximates	Energy, gross	18.2	MJ/kg DM	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Energy, gross	20	MJ/kg DM	Feedipedia

Hop	Hops	Spent, dehydrated. Humulus lupulus	Proximates	Energy, gross	18.5	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Energy, gross	19	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Energy, gross	20.1	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Energy, gross	20.4	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Energy, gross	12.8	MJ/kg DM	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Energy, gross	23.4	MJ/kg DM	Feedipedia
Lamb	Wool meal	Hydrolysed	Proximates	Energy, gross	18.4	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Energy, gross	24.1	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal	Preserved with acid	Proximates	Energy, gross	22.6	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal	Non-industrial	Proximates	Energy, gross	21.6	MJ/kg DM	Feedipedia

Animal by-products, unspecified	Blood	Chicken, fresh	Proximates	Energy, gross	22.4	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Blood	Moist	Proximates	Energy, gross	27.7	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Calcinated	Proximates	Energy, gross	1.6	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Energy, gross	11.4	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Energy, gross	2.4	MJ/kg DM	Feedipedia
Crab	Crab meal, dried	Dehydrated	Proximates	Energy, gross	15	MJ/kg DM	Feedipedia
Crab	Crab shells	Ground	Proximates	Energy, gross	9.1	MJ/kg DM	Feedipedia
Eggs	Eggshells		Proximates	Energy, gross	1.1	MJ/kg DM	Feedipedia
Poultry	Feather meal		Proximates	Energy, gross	23.5	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Energy, gross	21.9	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Energy, gross	20.4	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Energy, gross	19	MJ/kg DM	Feedipedia
Fish, unspecified	Fish oil		Proximates	Energy, gross	39	MJ/kg DM	Feedipedia

Fish, unspecified	Fish protein concentrate		Proximates	Energy, gross	23.3	MJ/kg DM	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Energy, gross	18.5	MJ/kg DM	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Energy, gross	21.6	MJ/kg DM	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Energy, gross	20.1	MJ/kg DM	Feedipedia
Frog	Frog meal	Whole frog	Proximates	Energy, gross	19	MJ/kg DM	Feedipedia
Poultry	Hatchery by product		Proximates	Energy, gross	9.8	MJ/kg DM	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Energy, gross	23.1	MJ/kg DM	Feedipedia
Lamb	Lamb hooves	Raw	Proximates	Energy, gross	21.9	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Energy, gross	17.7	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Energy, gross	22	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Energy, gross	24.3	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Energy, gross	22.9	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	Poultry	Proximates	Energy, gross	25.3	MJ/kg DM	Feedipedia

Beef	Cattle manure	Fresh	Proximates	Energy, gross	16.9	MJ/kg DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Energy, gross	16.8	MJ/kg DM	Feedipedia
Rabbit	Rabbit manure, dried	Dehydrated	Proximates	Energy, gross	17.6	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Energy, gross	17.7	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Energy, gross	16.7	MJ/kg DM	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Energy, gross	24.4	MJ/kg DM	Feedipedia
Poultry	Poultry feet	Chicken, raw	Proximates	Energy, gross	22.6	MJ/kg DM	Feedipedia
Poultry	Poultry heads	Chicken, raw	Proximates	Energy, gross	22.2	MJ/kg DM	Feedipedia
Beef	Rumen content	Calves, fresh	Proximates	Energy, gross	17.8	MJ/kg DM	Feedipedia
Beef	Rumen content	Cattle, fresh	Proximates	Energy, gross	17.3	MJ/kg DM	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Energy, gross	20.5	MJ/kg DM	Feedipedia
Beef	Rumen content	Lambs, fresh	Proximates	Energy, gross	18.8	MJ/kg DM	Feedipedia
Shrimp	Shrimp heads	Fresh	Proximates	Energy, gross	14	MJ/kg DM	Feedipedia
Shrimp	Shrimp heads, dried	Dehydrated	Proximates	Energy, gross	17.1	MJ/kg DM	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Energy, gross	17.1	MJ/kg DM	Feedipedia

Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Energy, gross	17.5	MJ/kg DM	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Energy, gross	19.1	MJ/kg DM	Feedipedia
Snail	Snail meal	With shells	Proximates	Energy, gross	15.3	MJ/kg DM	Feedipedia
Snail	Snail meal	Without shells	Proximates	Energy, gross	20	MJ/kg DM	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Energy, gross	16.4	MJ/kg DM	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Energy, gross	16.4	MJ/kg DM	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Energy, gross	16.6	MJ/kg DM	Feedipedia
Toad	Toad meal		Proximates	Energy, gross	21.9	MJ/kg DM	Feedipedia
Whale	Whale meal		Proximates	Energy, gross	21.1	MJ/kg DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Energy, gross	16.1	MJ/kg DM	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Energy, gross	15.4	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Energy, gross	19.6	MJ/kg DM	Feedipedia
Bakery	Bakery and viennoiserie by products		Proximates	Energy, gross	19.1	MJ/kg DM	Feedipedia

Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Energy, gross	21.3	MJ/kg DM	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Energy, gross	20.9	MJ/kg DM	Feedipedia
Corn	Maize starch		Proximates	Energy, gross	17.4	MJ/kg DM	Feedipedia
Cassava	Cassava starch		Proximates	Energy, gross	17.4	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Energy, gross	18.9	MJ/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Energy, gross	17.5	MJ/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Energy, gross	17.4	MJ/kg DM	Nutritive value of plantain and chicory for pigs

Potato	Potato pulp, dried	A review of different publications	Proximates	Energy, gross	16.6	MJ/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Nuts, unspecified	Nut meal	Babacu	Proximates	Energy, metabolisable	1932	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Proximates	Energy, metabolisable	3248	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cassava	Cassava meal		Proximates	Energy, metabolisable	2746	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Proximates	Energy, metabolisable	3096	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Proximates	Energy, metabolisable	3842	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cotton	Cottonseed meal	solv	Proximates	Energy, metabolisable	2470	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Proximates	Energy, metabolisable	3016	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Proximates	Energy, metabolisable	2942	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Rice	Rice bran	Defatted	Proximates	Energy, metabolisable	2384	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Proximates	Energy, metabolisable	3479	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Sugar cane	Sugar cane juice		Proximates	Energy, metabolisable	726	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Barley	Malt sprout meal		Proximates	Energy, metabolisable	2303	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Wheat	Wheat bran		Proximates	Energy, metabolisable	2405	kcal/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Apple	Apple pomace	Malus domestica	Proximates	Energy, metabolisable	1.86	Mcal/kg DM	Fruit waste as feed paper
Carrot	Carrot	Daucus carota	Proximates	Energy, metabolisable	3.29	Mcal/kg DM	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Proximates	Energy, metabolisable	3.16	Mcal/kg DM	Utilization of fruit and vegetable wastes, FAO

Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Energy, metabolisable	2.37	Mcal/kg DM	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Red grapes	Proximates	Energy, metabolisable	1.06	Mcal/kg DM	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace		Proximates	Energy, metabolisable	11.64	MJ/kg DM	Apple pomace as a supplement to pasture for dairy cows in late lactation
Apple	Apple pomace, dried	Dried	Proximates	Energy, metabolisable	8.2	MJ/kg DM	Handbook of poultry feed from waste: processing and use
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Energy, metabolisable	7.3	MJ/kg DM	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet feed	Molassed	Proximates	Energy, metabolisable	12.5	MJ/kg DM	Distillery feed by-products briefing
Rape	Rapeseed meal		Proximates	Energy, metabolisable	12	MJ/kg DM	Distillery feed by-products briefing

Brewer's yeast/grains, unspecified	Brewer's grains or draff (23% DM)		Proximates	Energy, metabolisable	11.1	MJ/kg DM	Distillery feed by-products briefing
Grape	Grape pomace	Skin and seeds, white grape	Proximates	Energy, metabolisable	5.48	MJ/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape pomace	Skin and seeds, red grape	Proximates	Energy, metabolisable	4.53	MJ/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Distillers grain	Distillers grain	Wheat, dark grains	Proximates	Energy, metabolisable	13.5	MJ/kg DM	Distillery feed by-products briefing
Distillers grain	Distillers grain	Malt, dark grains	Proximates	Energy, metabolisable	12.2	MJ/kg DM	Distillery feed by-products briefing

Grape	Grape seeds	White, Italian	Proximates	Energy, metabolisable	6.89	MJ/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Red, Italian	Proximates	Energy, metabolisable	6.23	MJ/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Californian	Proximates	Energy, metabolisable	5.58	MJ/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Not ensiled	Proximates	Energy, metabolisable	6.54	MJ/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Ensiled for 45 days	Proximates	Energy, metabolisable	5.94	MJ/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	White, Italian	Proximates	Energy, metabolisable	5.89	MJ/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Red, Italian	Proximates	Energy, metabolisable	5.88	MJ/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Californian	Proximates	Energy, metabolisable	5.52	MJ/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Not ensiled	Proximates	Energy, metabolisable	5.91	MJ/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Ensiled for 45 days	Proximates	Energy, metabolisable	5.61	MJ/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy, metabolisable	12.47	MJ/kg DM	Citrus by-products as ruminant feeds: A review

Cotton	Cotton straw		Proximates	Energy, metabolisable	5.1	MJ/kg DM	Feedipedia
Orange	Orange pulp, dried	Sheep	Proximates	Energy, metabolisable	12.80	sheep, MJ/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Energy, metabolisable	11.93	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Energy, metabolisable	12.16	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Energy, metabolisable	14.41	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Energy, metabolisable	14.11	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Energy, metabolisable	13.1	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Energy, metabolisable	13.37	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Energy, metabolisable	12.98	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Energy, metabolisable	12.43	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Energy, metabolisable	13	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Energy, metabolisable	13.84	sheep, MJ/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Sugar cane	Sugar cane stalks	Fresh	Proximates	Energy, metabolisable, N corrected, growing pig	7.9	MJ/kg DM	Feedipedia
Wheat	Triticale grain		Proximates	Energy, metabolisable, N corrected, growing pig	15.1	MJ/kg DM	Feedipedia
Wheat	Triticale straw		Proximates	Energy, metabolisable, N corrected, growing pig	2.7	MJ/kg DM	Feedipedia

Wheat	Wheat straw		Proximates	Energy, metabolisable, N corrected, growing pig	2	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Energy, metabolisable, N corrected, growing pig	14.4	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Energy, metabolisable, N corrected, growing pig	9.8	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Energy, metabolisable, N corrected, growing pig	10.1	MJ/kg DM	Feedipedia
Rice	Rice grain	Brown	Proximates	Energy, metabolisable, N corrected, growing pig	17	MJ/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Energy, metabolisable, N corrected, growing pig	10.4	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Energy, metabolisable, N corrected, growing pig	15.3	MJ/kg DM	Feedipedia

Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Energy, metabolisable, N corrected, growing pig	15.6	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Energy, metabolisable, N corrected, growing pig	13.2	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Energy, metabolisable, N corrected, growing pig	15.6	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Energy, metabolisable, N corrected, growing pig	16.7	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Energy, metabolisable, N corrected, growing pig	15.6	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Energy, metabolisable, N corrected, growing pig	12.5	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Energy, metabolisable, N corrected, growing pig	8.3	MJ/kg DM	Feedipedia

Rice	Rice bran	Defatted, fibre <11%	Proximates	Energy, metabolisable, N corrected, growing pig	12.7	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Energy, metabolisable, N corrected, growing pig	10.8	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Energy, metabolisable, N corrected, growing pig	6.6	MJ/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Energy, metabolisable, N corrected, growing pig	12.7	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Energy, metabolisable, N corrected, growing pig	15.7	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Energy, metabolisable, N corrected, growing pig	15.5	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Energy, metabolisable, N corrected, growing pig	16	MJ/kg DM	Feedipedia

Sorghum	Sorghum grain	Red varieties	Proximates	Energy, metabolisable, N corrected, growing pig	15.6	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Energy, metabolisable, N corrected, growing pig	15.7	MJ/kg DM	Feedipedia
Wheat	Wheat bran		Proximates	Energy, metabolisable, N corrected, growing pig	10.2	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Energy, metabolisable, N corrected, growing pig	12.8	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Energy, metabolisable, N corrected, growing pig	9.3	MJ/kg DM	Feedipedia
Wheat	Wheat germs		Proximates	Energy, metabolisable, N corrected, growing pig	16.4	MJ/kg DM	Feedipedia
Wheat	Wheat grain		Proximates	Energy, metabolisable, N corrected, growing pig	15.5	MJ/kg DM	Feedipedia

Wheat	Wheat grain	Durum	Proximates	Energy, metabolisable, N corrected, growing pig	15.4	MJ/kg DM	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Energy, metabolisable, N corrected, growing pig	6.7	MJ/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Energy, metabolisable, N corrected, growing pig	2.9	MJ/kg DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Energy, metabolisable, N corrected, growing pig	10.4	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Energy, metabolisable, N corrected, growing pig	10.4	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Energy, metabolisable, N corrected, growing pig	9.2	MJ/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Energy, metabolisable, N corrected, growing pig	12.7	MJ/kg DM	Feedipedia

Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Energy, metabolisable, N corrected, growing pig	12.3	MJ/kg DM	Feedipedia
Flax/linseed	Linseed meal		Proximates	Energy, metabolisable, N corrected, growing pig	14.3	MJ/kg DM	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Energy, metabolisable, N corrected, growing pig	13.3	MJ/kg DM	Feedipedia
Flax/linseed	Linseeds		Proximates	Energy, metabolisable, N corrected, growing pig	20.2	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Energy, metabolisable, N corrected, growing pig	14.4	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Energy, metabolisable, N corrected, growing pig	13.6	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Energy, metabolisable, N corrected, growing pig	9.6	MJ/kg DM	Feedipedia

Corn	Maize germ	Oil <30%	Proximates	Energy, metabolisable, N corrected, growing pig	15.6	MJ/kg DM	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Energy, metabolisable, N corrected, growing pig	22.4	MJ/kg DM	Feedipedia
Palm	Oil palm kernels		Proximates	Energy, metabolisable, N corrected, growing pig	19.6	MJ/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Energy, metabolisable, N corrected, growing pig	7.8	MJ/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Energy, metabolisable, N corrected, growing pig	7.3	MJ/kg DM	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Energy, metabolisable, N corrected, growing pig	23.5	MJ/kg DM	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Energy, metabolisable, N corrected, growing pig	11.7	MJ/kg DM	Feedipedia

Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Energy, metabolisable, N corrected, growing pig	18.6	MJ/kg DM	Feedipedia
Rape	Rapeseed hulls		Proximates	Energy, metabolisable, N corrected, growing pig	10.5	MJ/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Energy, metabolisable, N corrected, growing pig	12.3	MJ/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Energy, metabolisable, N corrected, growing pig	13.6	MJ/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Energy, metabolisable, N corrected, growing pig	12.9	MJ/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Energy, metabolisable, N corrected, growing pig	22.8	MJ/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Energy, metabolisable, N corrected, growing pig	14.4	MJ/kg DM	Feedipedia

Soy	Soybean hulls		Proximates	Energy, metabolisable, N corrected, growing pig	8.6	MJ/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Energy, metabolisable, N corrected, growing pig	15.3	MJ/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Energy, metabolisable, N corrected, growing pig	15.6	MJ/kg DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Energy, metabolisable, N corrected, growing pig	16.5	MJ/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Energy, metabolisable, N corrected, growing pig	19.3	MJ/kg DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Energy, metabolisable, N corrected, growing pig	19.8	MJ/kg DM	Feedipedia
Soy	Soybeans	Toasted	Proximates	Energy, metabolisable, N corrected, growing pig	19.4	MJ/kg DM	Feedipedia

Soy	Soybeans	Extruded	Proximates	Energy, metabolisable, N corrected, growing pig	19.1	MJ/kg DM	Feedipedia
Sunflower	Sunflower hulls		Proximates	Energy, metabolisable, N corrected, growing pig	1.5	MJ/kg DM	Feedipedia
Sunflower	Sunflower screenings		Proximates	Energy, metabolisable, N corrected, growing pig	4.2	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Energy, metabolisable, N corrected, growing pig	9.4	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Energy, metabolisable, N corrected, growing pig	10.6	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Energy, metabolisable, N corrected, growing pig	9.2	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Energy, metabolisable, N corrected, growing pig	11.1	MJ/kg DM	Feedipedia

Sunflower	Sunflower seeds		Proximates	Energy, metabolisable, N corrected, growing pig	17.5	MJ/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Energy, metabolisable, N corrected, growing pig	4.7	MJ/kg DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Energy, metabolisable, N corrected, growing pig	13.8	MJ/kg DM	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Energy, metabolisable, N corrected, growing pig	14.1	MJ/kg DM	Feedipedia
Banana	Banana fruits	Immature, without peel, fresh	Proximates	Energy, metabolisable, N corrected, growing pig	15	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Energy, metabolisable, N corrected, growing pig	15.5	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy, metabolisable, N corrected, growing pig	12	MJ/kg DM	Feedipedia

Carrot	Carrot, dried	Roots, dehydrated	Proximates	Energy, metabolisable, N corrected, growing pig	12.8	MJ/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Energy, metabolisable, N corrected, growing pig	14.1	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Energy, metabolisable, N corrected, growing pig	9.4	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Energy, metabolisable, N corrected, growing pig	9.6	MJ/kg DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Energy, metabolisable, N corrected, growing pig	6.8	MJ/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Energy, metabolisable, N corrected, growing pig	14.3	MJ/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Energy, metabolisable, N corrected, growing pig	15.3	MJ/kg DM	Feedipedia

Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Energy, metabolisable, N corrected, growing pig	9.4	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane juice		Proximates	Energy, metabolisable, N corrected, growing pig	17.1	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Energy, metabolisable, N corrected, growing pig	13	MJ/kg DM	Feedipedia
Poultry	Feather meal		Proximates	Energy, metabolisable, N corrected, growing pig	18.9	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Energy, metabolisable, N corrected, growing pig	16	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Energy, metabolisable, N corrected, growing pig	16.5	MJ/kg DM	Feedipedia
Poultry	Hatchery by product		Proximates	Energy, metabolisable, N corrected, growing pig	7.9	MJ/kg DM	Feedipedia

Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Energy, metabolisable, N corrected, growing pig	10.9	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Energy, metabolisable, N corrected, growing pig	10.2	MJ/kg DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Energy, metabolisable, N corrected, growing pig	14.8	MJ/kg DM	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Energy, metabolisable, N corrected, growing pig	14.2	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Energy, metabolisable, N corrected, growing pig	15.9	MJ/kg DM	Feedipedia
Bakery	Bakery and viennoiserie by products		Proximates	Energy, metabolisable, N corrected, growing pig	16.6	MJ/kg DM	Feedipedia
Corn	Maize starch		Proximates	Energy, metabolisable, N corrected, growing pig	16.8	MJ/kg DM	Feedipedia

Wheat	Wheat straw		Proximates	Energy, metabolisable, N corrected, rabbit	3.3	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Energy, metabolisable, N corrected, rabbit	11.1	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Energy, metabolisable, N corrected, rabbit	11.6	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Energy, metabolisable, N corrected, rabbit	14.2	MJ/kg DM	Feedipedia
Wheat	Wheat bran		Proximates	Energy, metabolisable, N corrected, rabbit	11.2	MJ/kg DM	Feedipedia
Wheat	Wheat germs		Proximates	Energy, metabolisable, N corrected, rabbit	18.4	MJ/kg DM	Feedipedia
Wheat	Wheat grain		Proximates	Energy, metabolisable, N corrected, rabbit	14.6	MJ/kg DM	Feedipedia

Cacao/cocoa	Cocoa hulls		Proximates	Energy, metabolisable, N corrected, rabbit	5.2	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Energy, metabolisable, N corrected, rabbit	12.6	MJ/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Energy, metabolisable, N corrected, rabbit	4	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Energy, metabolisable, N corrected, rabbit	78.5	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Energy, metabolisable, N corrected, rabbit	7	MJ/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Energy, metabolisable, N corrected, rabbit	13.5	MJ/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Energy, metabolisable, N corrected, rabbit	18.1	MJ/kg DM	Feedipedia

Sunflower	Sunflower hulls		Proximates	Energy, metabolisable, N corrected, rabbit	4.8	MJ/kg DM	Feedipedia
Sunflower	Sunflower screenings		Proximates	Energy, metabolisable, N corrected, rabbit	4.8	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Energy, metabolisable, N corrected, rabbit	10.1	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Energy, metabolisable, N corrected, rabbit	9.6	MJ/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Energy, metabolisable, N corrected, rabbit	11.9	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy, metabolisable, N corrected, rabbit	13.6	MJ/kg DM	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Energy, metabolisable, N corrected, rabbit	4.9	MJ/kg DM	Feedipedia

Sugar beet	Sugar beet molasses		Proximates	Energy, metabolisable, N corrected, rabbit	13.6	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Energy, metabolisable, N corrected, rabbit	12.2	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Energy, metabolisable, N corrected, rabbit	12.2	MJ/kg DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Energy, metabolisable, N corrected, rabbit	10.5	MJ/kg DM	Feedipedia
Rice	Rice hay		Proximates	Energy, metabolisable, ruminants	7.9	MJ/kg DM	Feedipedia
Rice	Rice, aerial part	Fresh	Proximates	Energy, metabolisable, ruminants	8.2	MJ/kg DM	Feedipedia
Rice	Rice straw		Proximates	Energy, metabolisable, ruminants	5.8	MJ/kg DM	Feedipedia
Rice	Rice straw	Ammonia-treated	Proximates	Energy, metabolisable, ruminants	7.2	MJ/kg DM	Feedipedia

Rice	Rice straw	NaOH-treated	Proximates	Energy, metabolisable, ruminants	7.2	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Energy, metabolisable, ruminants	9.3	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Energy, metabolisable, ruminants	10	MJ/kg DM	Feedipedia
Wheat	Triticale grain		Proximates	Energy, metabolisable, ruminants	12.9	MJ/kg DM	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Energy, metabolisable, ruminants	9.7	MJ/kg DM	Feedipedia
Wheat	Triticale straw		Proximates	Energy, metabolisable, ruminants	7.2	MJ/kg DM	Feedipedia
Wheat	Wheat hay		Proximates	Energy, metabolisable, ruminants	7.8	MJ/kg DM	Feedipedia
Wheat	Wheat straw		Proximates	Energy, metabolisable, ruminants	6.8	MJ/kg DM	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Energy, metabolisable, ruminants	9.6	MJ/kg DM	Feedipedia

Palm	Oil palm fronds	Fresh	Proximates	Energy, metabolisable, ruminants	5.7	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Energy, metabolisable, ruminants	8.9	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Energy, metabolisable, ruminants	12	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Energy, metabolisable, ruminants	11.3	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Energy, metabolisable, ruminants	15.4	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Energy, metabolisable, ruminants	9.9	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Energy, metabolisable, ruminants	10	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Energy, metabolisable, ruminants	10.2	MJ/kg DM	Feedipedia
Rice	Rice grain	Polished	Proximates	Energy, metabolisable, ruminants	13.6	MJ/kg DM	Feedipedia

Rice	Rice grain	Brown	Proximates	Energy, metabolisable, ruminants	13.3	MJ/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Energy, metabolisable, ruminants	9.7	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Energy, metabolisable, ruminants	14.2	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Energy, metabolisable, ruminants	13.7	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Energy, metabolisable, ruminants	12.4	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Energy, metabolisable, ruminants	13.7	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Energy, metabolisable, ruminants	15.8	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Energy, metabolisable, ruminants	13.1	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Energy, metabolisable, ruminants	10.1	MJ/kg DM	Feedipedia

Rice	Rice bran	Fibre >20%	Proximates	Energy, metabolisable, ruminants	6.7	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Energy, metabolisable, ruminants	11.4	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Energy, metabolisable, ruminants	9.7	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Energy, metabolisable, ruminants	4.9	MJ/kg DM	Feedipedia
Rice	Rice hull		Proximates	Energy, metabolisable, ruminants	3	MJ/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Energy, metabolisable, ruminants	10.1	MJ/kg DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Proximates	Energy, metabolisable, ruminants	13.2	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Energy, metabolisable, ruminants	11.8	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Energy, metabolisable, ruminants	13.8	MJ/kg DM	Feedipedia

Sorghum	Sorghum grain	All types	Proximates	Energy, metabolisable, ruminants	68.4	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Energy, metabolisable, ruminants	13.3	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Energy, metabolisable, ruminants	13.8	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Energy, metabolisable, ruminants	13.4	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Energy, metabolisable, ruminants	13.5	MJ/kg DM	Feedipedia
Wheat	Wheat bran		Proximates	Energy, metabolisable, ruminants	11	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Energy, metabolisable, ruminants	12.5	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Energy, metabolisable, ruminants	13.1	MJ/kg DM	Feedipedia
Wheat	Wheat germs		Proximates	Energy, metabolisable, ruminants	14	MJ/kg DM	Feedipedia

Nuts, unspecified	Nut hulls	Almond	Proximates	Energy, metabolisable, ruminants	8.7	MJ/kg DM	Feedipedia
Wheat	Wheat grain		Proximates	Energy, metabolisable, ruminants	13.1	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Energy, metabolisable, ruminants	13.1	MJ/kg DM	Feedipedia
Wheat	Wheat screenings		Proximates	Energy, metabolisable, ruminants	12.3	MJ/kg DM	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Energy, metabolisable, ruminants	7.7	MJ/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Energy, metabolisable, ruminants	5.4	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Energy, metabolisable, ruminants	12.8	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Energy, metabolisable, ruminants	11.5	MJ/kg DM	Feedipedia
Cotton	Cottonseed hulls		Proximates	Energy, metabolisable, ruminants	6.5	MJ/kg DM	Feedipedia

Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Energy, metabolisable, ruminants	13.2	MJ/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Energy, metabolisable, ruminants	11.9	MJ/kg DM	Feedipedia
Flax/linseed	Flax straw		Proximates	Energy, metabolisable, ruminants	5.8	MJ/kg DM	Feedipedia
Flax/linseed	Flax chaff		Proximates	Energy, metabolisable, ruminants	6.7	MJ/kg DM	Feedipedia
Flax/linseed	Flax shives		Proximates	Energy, metabolisable, ruminants	5.3	MJ/kg DM	Feedipedia
Flax/linseed	Flax hay		Proximates	Energy, metabolisable, ruminants	8.8	MJ/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Energy, metabolisable, ruminants	3.8	MJ/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Proximates	Energy, metabolisable, ruminants	6.2	MJ/kg DM	Feedipedia
Flax/linseed	Linseed meal		Proximates	Energy, metabolisable, ruminants	12.6	MJ/kg DM	Feedipedia

Flax/linseed	Linseed meal	Solvent extraction	Proximates	Energy, metabolisable, ruminants	11.6	MJ/kg DM	Feedipedia
Flax/linseed	Linseeds		Proximates	Energy, metabolisable, ruminants	18.2	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Energy, metabolisable, ruminants	13.1	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Energy, metabolisable, ruminants	12.2	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Energy, metabolisable, ruminants	14.6	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Energy, metabolisable, ruminants	11.8	MJ/kg DM	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Energy, metabolisable, ruminants	16.2	MJ/kg DM	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Energy, metabolisable, ruminants	20.3	MJ/kg DM	Feedipedia
Palm	Oil palm kernels		Proximates	Energy, metabolisable, ruminants	19.2	MJ/kg DM	Feedipedia

Olive	Olive oil cake	Crude, with stones	Proximates	Energy, metabolisable, ruminants	4.1	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Energy, metabolisable, ruminants	6.2	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Energy, metabolisable, ruminants	3.5	MJ/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Proximates	Energy, metabolisable, ruminants	6.2	MJ/kg DM	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Energy, metabolisable, ruminants	11.1	MJ/kg DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Energy, metabolisable, ruminants	7	MJ/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Energy, metabolisable, ruminants	11.6	MJ/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Energy, metabolisable, ruminants	10.7	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Energy, metabolisable, ruminants	7.9	MJ/kg DM	Feedipedia

Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Energy, metabolisable, ruminants	9.4	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Energy, metabolisable, ruminants	2.7	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Energy, metabolisable, ruminants	12.6	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Energy, metabolisable, ruminants	12.3	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Energy, metabolisable, ruminants	14	MJ/kg DM	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Energy, metabolisable, ruminants	23	MJ/kg DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Proximates	Energy, metabolisable, ruminants	18.2	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Energy, metabolisable, ruminants	10.4	MJ/kg DM	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Energy, metabolisable, ruminants	11	MJ/kg DM	Feedipedia

Rape	Rape forage	Fresh	Proximates	Energy, metabolisable, ruminants	10.7	MJ/kg DM	Feedipedia
Rape	Rape forage, dried	Dehydrated	Proximates	Energy, metabolisable, ruminants	8.8	MJ/kg DM	Feedipedia
Rape	Rape straw		Proximates	Energy, metabolisable, ruminants	5.4	MJ/kg DM	Feedipedia
Rape	Rapeseed hulls		Proximates	Energy, metabolisable, ruminants	9.4	MJ/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Energy, metabolisable, ruminants	11.2	MJ/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Energy, metabolisable, ruminants	12.5	MJ/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Energy, metabolisable, ruminants	11.7	MJ/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Energy, metabolisable, ruminants	20.3	MJ/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Energy, metabolisable, ruminants	12.5	MJ/kg DM	Feedipedia

Soy	Soybean, aerial part	Fresh	Proximates	Energy, metabolisable, ruminants	9.2	MJ/kg DM	Feedipedia
Soy	Soybean hay		Proximates	Energy, metabolisable, ruminants	8.6	MJ/kg DM	Feedipedia
Soy	Soybean straw		Proximates	Energy, metabolisable, ruminants	7.5	MJ/kg DM	Feedipedia
Soy	Soybean hulls		Proximates	Energy, metabolisable, ruminants	11.5	MJ/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Energy, metabolisable, ruminants	13.6	MJ/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Energy, metabolisable, ruminants	13.6	MJ/kg DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Energy, metabolisable, ruminants	14.7	MJ/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Energy, metabolisable, ruminants	15.3	MJ/kg DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Energy, metabolisable, ruminants	15.5	MJ/kg DM	Feedipedia

Soy	Soybeans	Toasted	Proximates	Energy, metabolisable, ruminants	15.4	MJ/kg DM	Feedipedia
Soy	Soybeans	Extruded	Proximates	Energy, metabolisable, ruminants	15.2	MJ/kg DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Energy, metabolisable, ruminants	8.9	MJ/kg DM	Feedipedia
Sunflower	Sunflower forage	Silage	Proximates	Energy, metabolisable, ruminants	9.2	MJ/kg DM	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Proximates	Energy, metabolisable, ruminants	6.2	MJ/kg DM	Feedipedia
Sunflower	Sunflower heads	Without seeds	Proximates	Energy, metabolisable, ruminants	8.6	MJ/kg DM	Feedipedia
Sunflower	Sunflower stalks		Proximates	Energy, metabolisable, ruminants	6.6	MJ/kg DM	Feedipedia
Sunflower	Sunflower screenings		Proximates	Energy, metabolisable, ruminants	8.1	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Energy, metabolisable, ruminants	9.1	MJ/kg DM	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Energy, metabolisable, ruminants	87.7	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Energy, metabolisable, ruminants	8.9	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Energy, metabolisable, ruminants	10.9	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Walnut (Juglans regia)	Proximates	Energy, metabolisable, ruminants	4.2	MJ/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Energy, metabolisable, ruminants	8.5	MJ/kg DM	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Energy, metabolisable, ruminants	10.7	MJ/kg DM	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Energy, metabolisable, ruminants	11.9	MJ/kg DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Energy, metabolisable, ruminants	11.3	MJ/kg DM	Feedipedia
Banana	Banana	Aerial part, fresh	Proximates	Energy, metabolisable, ruminants	9.9	MJ/kg DM	Feedipedia

Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Energy, metabolisable, ruminants	13.9	MJ/kg DM	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Energy, metabolisable, ruminants	13.3	MJ/kg DM	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Energy, metabolisable, ruminants	10.2	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy, metabolisable, ruminants	12.1	MJ/kg DM	Feedipedia
Orange	Orange pulp, dried	Orange, dried	Proximates	Energy, metabolisable, ruminants	12.2	MJ/kg DM	Feedipedia
Orange	Orange pulp, dried	Mandarin, dried	Proximates	Energy, metabolisable, ruminants	13.1	MJ/kg DM	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Energy, metabolisable, ruminants	10.4	MJ/kg DM	Feedipedia
Orange	Orange pulp	Orange, fresh	Proximates	Energy, metabolisable, ruminants	13.6	MJ/kg DM	Feedipedia
Grapefruit	Grapefruit pulp	Grapefruit, fresh	Proximates	Energy, metabolisable, ruminants	13.4	MJ/kg DM	Feedipedia

Orange	Orange pulp	Clementine, fresh	Proximates	Energy, metabolisable, ruminants	14.1	MJ/kg DM	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Energy, metabolisable, ruminants	14	MJ/kg DM	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Energy, metabolisable, ruminants	13.5	MJ/kg DM	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Energy, metabolisable, ruminants	14.6	MJ/kg DM	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Energy, metabolisable, ruminants	12.6	MJ/kg DM	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Energy, metabolisable, ruminants	13.5	MJ/kg DM	Feedipedia
Grapefruit	Grapefruit peel silage	Grapefruit	Proximates	Energy, metabolisable, ruminants	13	MJ/kg DM	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Energy, metabolisable, ruminants	12.5	MJ/kg DM	Feedipedia
Lime	Lime peel silage	Lime	Proximates	Energy, metabolisable, ruminants	10.7	MJ/kg DM	Feedipedia

Coffee	Instant coffee by product		Proximates	Energy, metabolisable, ruminants	7.5	MJ/kg DM	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Energy, metabolisable, ruminants	11.9	MJ/kg DM	Feedipedia
Date	Date palm leaves	Fresh	Proximates	Energy, metabolisable, ruminants	5.9	MJ/kg DM	Feedipedia
Date	Date palm leaves, dried	Dry	Proximates	Energy, metabolisable, ruminants	5.6	MJ/kg DM	Feedipedia
Date	Date palm pedicels		Proximates	Energy, metabolisable, ruminants	6.5	MJ/kg DM	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Energy, metabolisable, ruminants	4.3	MJ/kg DM	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Energy, metabolisable, ruminants	4.6	MJ/kg DM	Feedipedia
Grape	Grape pomace	Silage	Proximates	Energy, metabolisable, ruminants	3.7	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Energy, metabolisable, ruminants	11.4	MJ/kg DM	Feedipedia

Carrot	Carrot	Roots, fresh	Proximates	Energy, metabolisable, ruminants	11.9	MJ/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Energy, metabolisable, ruminants	12.3	MJ/kg DM	Feedipedia
Carrot	Carrot tops	Fresh	Proximates	Energy, metabolisable, ruminants	10.2	MJ/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Energy, metabolisable, ruminants	12.3	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Energy, metabolisable, ruminants	11.2	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Energy, metabolisable, ruminants	11.4	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Energy, metabolisable, ruminants	11.2	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Proximates	Energy, metabolisable, ruminants	11	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Energy, metabolisable, ruminants	12.5	MJ/kg DM	Feedipedia

Sugar beet	Sugar beet tops	Fresh	Proximates	Energy, metabolisable, ruminants	9.4	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Proximates	Energy, metabolisable, ruminants	8.5	MJ/kg DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Energy, metabolisable, ruminants	8.8	MJ/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Energy, metabolisable, ruminants	12	MJ/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Energy, metabolisable, ruminants	12.2	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Energy, metabolisable, ruminants	11.2	MJ/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Energy, metabolisable, ruminants	7	MJ/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Energy, metabolisable, ruminants	6.4	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Energy, metabolisable, ruminants	9.6	MJ/kg DM	Feedipedia

Sugar cane	Sugar cane tops	Fresh	Proximates	Energy, metabolisable, ruminants	8	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane tops	Silage	Proximates	Energy, metabolisable, ruminants	7.8	MJ/kg DM	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Energy, metabolisable, ruminants	11.5	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Energy, metabolisable, ruminants	10.6	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Energy, metabolisable, ruminants	11.1	MJ/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Energy, metabolisable, ruminants	12.1	MJ/kg DM	Feedipedia
Poultry	Feather meal		Proximates	Energy, metabolisable, ruminants	13.3	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Energy, metabolisable, ruminants	14.8	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Energy, metabolisable, ruminants	13.6	MJ/kg DM	Feedipedia

Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Energy, metabolisable, ruminants	9.1	MJ/kg DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Energy, metabolisable, ruminants	12.3	MJ/kg DM	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Energy, metabolisable, ruminants	11.8	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Energy, metabolisable, ruminants	13.4	MJ/kg DM	Feedipedia
Palm	Oil palm kernels		Proximates	Energy, metabolisable, ruminants (FAO, 1982)	22.5	MJ/kg DM	Feedipedia
Olive	Olive skins		Proximates	Energy, metabolisable, ruminants (FAO, 1982)	8.2	MJ/kg DM	Feedipedia
Pumpkin	Pumpkin	Fruits, fresh, Cucurbita sp.	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	13.6	MJ/kg DM	Feedipedia
Pumpkin	Pumpkin hulls	Cucurbita sp.	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	4.2	MJ/kg DM	Feedipedia

Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	10.5	MJ/kg DM	Feedipedia
Pumpkin	Pumpkin seeds	Without hulls, Cucurbita sp.	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	19.3	MJ/kg DM	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	8.3	MJ/kg DM	Feedipedia
Safflower	Safflower meal	Without hulls, expeller extraction. Carthamus tinctorius	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	11.7	MJ/kg DM	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Energy, metabolisable, ruminants (FAO, 1982)	9.2	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	15	MJ/kg DM	Feedipedia
Banana	Banana	Aerial part, fresh	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	9.9	MJ/kg DM	Feedipedia

Banana	Banana peel	Mature, fresh	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	9.5	MJ/kg DM	Feedipedia
Banana	Banana peel	Immature, fresh	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	9.1	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus, dried	Fruits, dried	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	12.7	MJ/kg DM	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	13.8	MJ/kg DM	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	10.8	MJ/kg DM	Feedipedia
Pineapple	Pineapple leaves	Fresh, Ananas comosus	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	11.5	MJ/kg DM	Feedipedia
Potato	Potato, aerial part	Ensiled	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	6.5	MJ/kg DM	Feedipedia

Potato	Potato aerial part	Fresh	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	6.6	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet tops	Silage	Proximates	Energy, metabolisable, ruminants (FAO, 1982)	9.2	MJ/kg DM	Feedipedia
Wheat	Wheat straw		Proximates	Energy, metabolisable, ruminants (gas production)	5	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Energy, metabolisable, ruminants (gas production)	9	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Energy, metabolisable, ruminants (gas production)	10	MJ/kg DM	Feedipedia
Wheat	Wheat bran		Proximates	Energy, metabolisable, ruminants (gas production)	13.5	MJ/kg DM	Feedipedia

Cotton	Cottonseed hulls		Proximates	Energy, metabolisable, ruminants (gas production)	6.6	MJ/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Energy, metabolisable, ruminants (gas production)	9.1	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Energy, metabolisable, ruminants (gas production)	4.5	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Energy, metabolisable, ruminants (gas production)	12.1	MJ/kg DM	Feedipedia
Soy	Soybean hulls		Proximates	Energy, metabolisable, ruminants (gas production)	6.2	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Energy, metabolisable, ruminants (gas production)	4.1	MJ/kg DM	Feedipedia

Banana	Banana fruits	Mature, fresh	Proximates	Energy, metabolisable, ruminants (gas production)	7.7	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Energy, metabolisable, ruminants (gas production)	11.3	MJ/kg DM	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Energy, metabolisable, ruminants (gas production)	11.3	MJ/kg DM	Feedipedia
Melon	Melon	Fruit, fresh. Cucumis melo	Proximates	Energy, metabolisable, ruminants (gas production)	8.3	MJ/kg DM	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Energy, metabolisable, ruminants (gas production)	5.1	MJ/kg DM	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Energy, metabolisable, ruminants (gas production)	9.4	MJ/kg DM	Feedipedia

Sugar cane	Sugar cane tops	Fresh	Proximates	Energy, metabolisable, ruminants (gas production)	5.9	MJ/kg DM	Feedipedia
Carrot	Carrot	Daucus carota	Proximates	Energy, net	1.94	Mcal/kg DM	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Proximates	Energy, net	1.87	Mcal/kg DM	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Red grapes	Proximates	Energy, net	0.69	Mcal/kg DM	Utilization of fruit and vegetable wastes, FAO
Wheat	Wheat		Proximates	Energy, net	10.5	MJ/kg as fed, pigs	Distillery feed by-products briefing
Wheat	Wheat feed		Proximates	Energy, net	7.7	MJ/kg as fed, pigs	Distillery feed by-products briefing
Wheat	Wheat bran		Proximates	Energy, net	6.2	MJ/kg as fed, pigs	Distillery feed by-products briefing
Wheat	Wheat grain	Dark	Proximates	Energy, net	9.3	MJ/kg as fed, pigs	Distillery feed by-products briefing

Sugar beet	Sugar beet feed	Molassed	Proximates	Energy, net	6.6	MJ/kg as fed, pigs	Distillery feed by-products briefing
Rape	Rapeseed meal		Proximates	Energy, net	6.5	MJ/kg as fed, pigs	Distillery feed by-products briefing
Distillery by-products, unspecified	Distillers solids	Wet	Proximates	Energy, net	10.4	MJ/kg DM	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Distillery by-products, unspecified	Distillers solubles	Citrus molasses	Proximates	Energy, net	8.28	MJ/kg DM	Citrus by-products as ruminant feeds: A review
Apple	Apple pomace	Malus domestica	Proximates	Energy, net	1.06-1.12	Mcal/kg DM	Fruit waste as feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Energy, net	1.43-1.53	Mcal/kg DM	Utilization of fruit and vegetable wastes, FAO

Wheat	Triticale grain		Proximates	Energy, net, growing pig	11.9	MJ/kg DM	Feedipedia
Wheat	Triticale straw		Proximates	Energy, net, growing pig	1.4	MJ/kg DM	Feedipedia
Wheat	Wheat straw		Proximates	Energy, net, growing pig	1.1	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Energy, net, growing pig	9.8	MJ/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Energy, net, growing pig	9	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Energy, net, growing pig	6.6	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Energy, net, growing pig	6.9	MJ/kg DM	Feedipedia
Rice	Rice grain	Brown	Proximates	Energy, net, growing pig	13.6	MJ/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Energy, net, growing pig	6.7	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Energy, net, growing pig	9.5	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Energy, net, growing pig	10.4	MJ/kg DM	Feedipedia

Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Energy, net, growing pig	8.8	MJ/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Energy, net, growing pig	10.4	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Energy, net, growing pig	13.1	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Energy, net, growing pig	12.2	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Energy, net, growing pig	9.4	MJ/kg DM	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Energy, net, growing pig	5.6	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Energy, net, growing pig	9.2	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Energy, net, growing pig	7.3	MJ/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Energy, net, growing pig	4.1	MJ/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Energy, net, growing pig	9.8	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Energy, net, growing pig	12.3	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Energy, net, growing pig	12.7	MJ/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Energy, net, growing pig	12.4	MJ/kg DM	Feedipedia

Sorghum	Sorghum grain	White varieties	Proximates	Energy, net, growing pig	12.5	MJ/kg DM	Feedipedia
Wheat	Wheat bran		Proximates	Energy, net, growing pig	7.2	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Energy, net, growing pig	8.2	MJ/kg DM	Feedipedia
Wheat	Wheat germs		Proximates	Energy, net, growing pig	11.8	MJ/kg DM	Feedipedia
Wheat	Wheat grain		Proximates	Energy, net, growing pig	12.1	MJ/kg DM	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Energy, net, growing pig	12.1	MJ/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Energy, net, growing pig	1.6	MJ/kg DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Energy, net, growing pig	6.4	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Energy, net, growing pig	7.1	MJ/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Energy, net, growing pig	6.3	MJ/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Energy, net, growing pig	7.6	MJ/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Energy, net, growing pig	7.4	MJ/kg DM	Feedipedia

Flax/linseed	Linseed meal	Solvent extraction	Proximates	Energy, net, growing pig	8.2	MJ/kg DM	Feedipedia
Flax/linseed	Linseeds		Proximates	Energy, net, growing pig	16.4	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Energy, net, growing pig	9.2	MJ/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Energy, net, growing pig	8.7	MJ/kg DM	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Energy, net, growing pig	12.7	MJ/kg DM	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Energy, net, growing pig	18.6	MJ/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Energy, net, growing pig	5.4	MJ/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Energy, net, growing pig	5	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Energy, net, growing pig	9	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Energy, net, growing pig	83	MJ/kg DM	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Energy, net, growing pig	19	MJ/kg DM	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Energy, net, growing pig	7.5	MJ/kg DM	Feedipedia

Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Energy, net, growing pig	14.9	MJ/kg DM	Feedipedia
Rape	Rapeseed hulls		Proximates	Energy, net, growing pig	7.2	MJ/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Energy, net, growing pig	7.6	MJ/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Energy, net, growing pig	9	MJ/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Energy, net, growing pig	8.1	MJ/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Energy, net, growing pig	17.8	MJ/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Energy, net, growing pig	9.6	MJ/kg DM	Feedipedia
Soy	Soybean hulls		Proximates	Energy, net, growing pig	4.6	MJ/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Energy, net, growing pig	9.3	MJ/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Energy, net, growing pig	9.5	MJ/kg DM	Feedipedia

Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Energy, net, growing pig	14	MJ/kg DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Energy, net, growing pig	14.3	MJ/kg DM	Feedipedia
Soy	Soybeans	Toasted	Proximates	Energy, net, growing pig	14.1	MJ/kg DM	Feedipedia
Soy	Soybeans	Extruded	Proximates	Energy, net, growing pig	13.8	MJ/kg DM	Feedipedia
Sunflower	Sunflower hulls		Proximates	Energy, net, growing pig	0	MJ/kg DM	Feedipedia
Sunflower	Sunflower screenings		Proximates	Energy, net, growing pig	1.9	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Energy, net, growing pig	5.3	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Energy, net, growing pig	6	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Energy, net, growing pig	5.1	MJ/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Energy, net, growing pig	6.2	MJ/kg DM	Feedipedia

Sunflower	Sunflower seeds		Proximates	Energy, net, growing pig	14.5	MJ/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Energy, net, growing pig	2.3	MJ/kg DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Energy, net, growing pig	9.9	MJ/kg DM	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Energy, net, growing pig	11.3	MJ/kg DM	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Proximates	Energy, net, growing pig	11.4	MJ/kg DM	Feedipedia
Banana	Banana fruits	Immature, without peel, fresh	Proximates	Energy, net, growing pig	12.2	MJ/kg DM	Feedipedia
Banana	Banana fruits, dried	Immature, without peel, dehydrated	Proximates	Energy, net, growing pig	11.8	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Energy, net, growing pig	10.8	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Energy, net, growing pig	8.3	MJ/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Energy, net, growing pig	8.7	MJ/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Energy, net, growing pig	10.9	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Energy, net, growing pig	5.9	MJ/kg DM	Feedipedia

Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Energy, net, growing pig	6.1	MJ/kg DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Energy, net, growing pig	4.1	MJ/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Energy, net, growing pig	11.3	MJ/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Energy, net, growing pig	12.1	MJ/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Energy, net, growing pig	5.9	MJ/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Energy, net, growing pig	9.2	MJ/kg DM	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Proximates	Energy, net, growing pig	5.2	MJ/kg DM	Feedipedia
Poultry	Feather meal		Proximates	Energy, net, growing pig	11.6	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Energy, net, growing pig	10.5	MJ/kg DM	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Energy, net, growing pig	10	MJ/kg DM	Feedipedia
Poultry	Hatchery by product		Proximates	Energy, net, growing pig	5.7	MJ/kg DM	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Energy, net, growing pig	5.4	MJ/kg DM	Feedipedia

Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Energy, net, growing pig	7.5	MJ/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Energy, net, growing pig	6.5	MJ/kg DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Energy, net, growing pig	12.4	MJ/kg DM	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Energy, net, growing pig	11.6	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Energy, net, growing pig	10.4	MJ/kg DM	Feedipedia
Bakery	Bakery and viennoiserie by products		Proximates	Energy, net, growing pig	13.3	MJ/kg DM	Feedipedia
Corn	Maize starch		Proximates	Energy, net, growing pig	13.7	MJ/kg DM	Feedipedia
Flax/linseed	Linseeds		Proximates	Energy, true metabolisable, N corrected, poultry	16.4	MJ/kg DM	Feedipedia
Palm	Oil palm kernels		Proximates	Energy, true metabolisable, N corrected, poultry	20.7	MJ/kg DM	Feedipedia

Palm	Palm oil mill effluent	Decanted	Proximates	Energy, true metabolisable, N corrected, poultry	17.3	MJ/kg DM	Feedipedia
Poultry	Poultry by product meal	High protein	Proximates	Energy, true metabolisable, N corrected, poultry	14.8	MJ/kg DM	Feedipedia
Palm	Palm oil mill effluent	Decanted	Proximates	Energy, true metabolisable, poultry	18.3	MJ/kg DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Energy, true metabolisable, poultry	15.2	MJ/kg DM	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Energy, true metabolisable, poultry	3.3	MJ/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Enolase	17	%	NOSHAN
Grape	Grape cane	Alphone Lavallee	Flavanols	Epicatechin	111.42	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Flavanols	Epicatechin	81.54	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Flavanols	Epicatechin	113.08	µg/100g cane	Chemical composition of grape canes

Grape	Grape cane	Hafizali	Flavanols	Epicatechin	102.64	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Flavanols	Epicatechin	112.18	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Isabella	Flavanols	Epicatechin	98.82	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Italia	Flavanols	Epicatechin	69.6	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Flavanols	Epicatechin	112.94	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Flavanols	Epicatechin	114.32	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Flavanols	Epicatechin	100.3	µg/100g cane	Chemical composition of grape canes
Apple	Apple pomace		Undesirable components	Escherichia coli	0	cfu/25g	NOSHAN
Orange	Orange peel	Orange	Undesirable components	Escherichia coli	105000	cfu/25g	NOSHAN
Hop	Hops		Undesirable components	Escherichia coli	0	cfu/25g	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Escherichia coli	930	cfu/25g	NOSHAN

Grape	Grape pomace		Undesirable components	Escherichia coli	430	cfu/25g	NOSHAN
Barley	Malted barley germs		Undesirable components	Escherichia coli	0	cfu/25g	NOSHAN
Mushrooms	Mushrooms		Undesirable components	Escherichia coli	14000	cfu/25g	NOSHAN
Onion	Onion	Slices, fresh	Undesirable components	Escherichia coli	10	cfu/25g	NOSHAN
Rape	Rapeseed press cake		Undesirable components	Escherichia coli	0	cfu/25g	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	Escherichia coli	0	cfu/25g	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Undesirable components	Escherichia coli	0	cfu/25g	NOSHAN
Apple	Apple	Whole	Undesirable components	Escherichia coli	<25	cfu/25g	NOSHAN
Pears	Pear	Whole	Undesirable components	Escherichia coli	<25	cfu/25g	NOSHAN
Orange	Orange peel	Orange	Waste compounds	Essential oils	0.6	ml/100g	NOSHAN
Lemon	Lemon peel	Selinunte	Waste compounds	Essential oils content, total	1100.66	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Akragas	Waste compounds	Essential oils content, total	1565.35	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femminello S	Waste compounds	Essential oils content, total	2000.77	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Continella m 84	Waste compounds	Essential oils content, total	2091.21	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femm. Siracusano 2KR	Waste compounds	Essential oils content, total	2282.88	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm, Cerza	Waste compounds	Essential oils content, total	1114.82	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Iniasel 95	Waste compounds	Essential oils content, total	1747.77	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Fetnm. Fior d'Arancio m 79	Waste compounds	Essential oils content, total	1736.16	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Scandurca	Waste compounds	Essential oils content, total	1600.13	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Sfusato Amalfitano	Waste compounds	Essential oils content, total	1907.02	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Kamahna	Waste compounds	Essential oils content, total	1443.72	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Segesta	Waste compounds	Essential oils content, total	1370.31	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Siracusano m 296	Waste compounds	Essential oils content, total	1977.54	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femm. Siracusano m 296	Waste compounds	Essential oils content, total	1225.41	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Ovale di Sorrento	Waste compounds	Essential oils content, total	1616.16	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Ericc	Waste compounds	Essential oils content, total	2215.51	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femm. Dosaco	Waste compounds	Essential oils content, total	1089.62	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femminello Adamo	Waste compounds	Essential oils content, total	1901.36	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Waste compounds	Ethanol	1.87	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Waste compounds	Ethanol	1.23	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Waste compounds	Ethanol	0.92	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Waste compounds	Ethanol	2.32	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Distillers grain	Distillers grain	Wet corn mash solids	Waste compounds	Ethanol	107	g/kg DM	Distillers grains as an energy source and effect of drying on protein availability
Distillers grain	Distillers corn stillage	Thin. Liquid from corn mash. Distilled, alcohol removed	Waste compounds	Ethanol	122	g/kg DM	Distillers grains as an energy source and effect of drying on protein availability
Sugar by-products, unspecified	Bagasse		Proximates	Extractives	4.6	wt%, dry basis	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Sugar by-products, unspecified	Trash		Proximates	Extractives	8.4	wt%, dry basis	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Bagasse		Proximates	Extractives	4.6	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Sugar by-products, unspecified	Trash		Proximates	Extractives	8.4	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Olive	Olive tree pruning	Biomass	Proximates	Extractives	24.5	% DM	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass
Sugar cane	Sugar cane bagasse		Proximates	Extractives	5.3	% DM	Combined ethanol and methane production using steam pretreated sugarcane bagasse

Olive	Olive tree pruning		Proximates	Extractives	18	%	Biorefining of olive tree (Olea europea) pruning
Hop	Hops		Waste compounds	Extractives, 95% EtOH	0.5	% DM	ECN Phyllis 2
Hop	Hops	Bast	Waste compounds	Extractives, 95% EtOH	1.8	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Waste compounds	Extractives, 95% EtOH	1.5	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Waste compounds	Extractives, 95% EtOH	2	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Waste compounds	Extractives, 95% EtOH	0.2	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Waste compounds	Extractives, 95% EtOH	0.4	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Waste compounds	Extractives, 95% EtOH	0.6	% DM	ECN Phyllis 2
Coconut	Coconut husk		Waste compounds	Extractives, 95% EtOH	0.8	% DM	ECN Phyllis 2
Coconut	Coconut husk		Waste compounds	Extractives, 95% EtOH	2.2	% DM	ECN Phyllis 2
Coconut	Coconut husk		Waste compounds	Extractives, 95% EtOH	0	% DM	ECN Phyllis 2
Coconut	Coconut husk		Waste compounds	Extractives, 95% EtOH	0.2	% DM	ECN Phyllis 2

Coconut	Coconut pith		Waste compounds	Extractives, 95% EtOH	3.7	% DM	ECN Phyllis 2
Coconut	Coconut pith		Waste compounds	Extractives, 95% EtOH	1.4	% DM	ECN Phyllis 2
Coconut	Coconut pith		Waste compounds	Extractives, 95% EtOH	0.3	% DM	ECN Phyllis 2
Wheat	Wheat bran		Waste compounds	Extractives, 95% EtOH	1.3	% DM	ECN Phyllis 2
Hop	Hops		Waste compounds	Extractives, EtOH/toluene	1.9	% DM	ECN Phyllis 2
Hop	Hops	Bast	Waste compounds	Extractives, EtOH/toluene	7.4	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Waste compounds	Extractives, EtOH/toluene	2.7	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Waste compounds	Extractives, EtOH/toluene	1.8	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Waste compounds	Extractives, EtOH/toluene	1.4	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Waste compounds	Extractives, EtOH/toluene	1.7	% DM	ECN Phyllis 2
Coconut	Coconut husk		Waste compounds	Extractives, EtOH/toluene	4.4	% DM	ECN Phyllis 2

Coconut	Coconut husk		Waste compounds	Extractives, EtOH/toluene	4	% DM	ECN Phyllis 2
Coconut	Coconut husk		Waste compounds	Extractives, EtOH/toluene	3.2	% DM	ECN Phyllis 2
Coconut	Coconut husk		Waste compounds	Extractives, EtOH/toluene	4.8	% DM	ECN Phyllis 2
Coconut	Coconut husk		Waste compounds	Extractives, EtOH/toluene	0.8	% DM	ECN Phyllis 2
Coconut	Coconut pith		Waste compounds	Extractives, EtOH/toluene	2.1	% DM	ECN Phyllis 2
Coconut	Coconut pith		Waste compounds	Extractives, EtOH/toluene	3.4	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Waste compounds	Extractives, EtOH/toluene	3.3	% DM	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Waste compounds	Extractives, EtOH/toluene	6.2	% DM	ECN Phyllis 2

Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Waste compounds	Extractives, EtOH/toluene	9.4	% DM	ECN Phyllis 2
Olive	Olive pits	Ethanol/benzene extractives 1.5%, alpha-cellulose 28%, pentosan 18.5%	Waste compounds	Extractives, EtOH/toluene	1.5	% DM	ECN Phyllis 2
Wheat	Wheat bran		Waste compounds	Extractives, EtOH/toluene	10.8	% DM	ECN Phyllis 2
Sugar cane	Sugar cane bagasse		Waste compounds	Extractives, acetone	0.9	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw
Sugar cane	Sugar cane straw		Waste compounds	Extractives, acetone	1.4	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw

Banana	Banana bunch		Waste compounds	Extractives, ethanol/toluene	2.76	% DM	Binderless fiberboard from steam exploded banana bunch
Hop	Hops		Waste compounds	Extractives, hot water	4.2	% DM	ECN Phyllis 2
Hop	Hops	Bast	Waste compounds	Extractives, hot water	16.7	% DM	ECN Phyllis 2
Potato	Potato mash		Waste compounds	Extractives, hot water	3.1	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Waste compounds	Extractives, hot water	2.6	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Waste compounds	Extractives, hot water	1.4	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Waste compounds	Extractives, hot water	1.2	% DM	ECN Phyllis 2
Coconut	Coconut husk		Waste compounds	Extractives, hot water	9.3	% DM	ECN Phyllis 2
Coconut	Coconut husk		Waste compounds	Extractives, hot water	13.8	% DM	ECN Phyllis 2
Coconut	Coconut husk		Waste compounds	Extractives, hot water	6.4	% DM	ECN Phyllis 2
Coconut	Coconut husk		Waste compounds	Extractives, hot water	5	% DM	ECN Phyllis 2
Coconut	Coconut husk		Waste compounds	Extractives, hot water	2.9	% DM	ECN Phyllis 2

Coconut	Coconut pith		Waste compounds	Extractives, hot water	9.5	% DM	ECN Phyllis 2
Coconut	Coconut pith		Waste compounds	Extractives, hot water	8.3	% DM	ECN Phyllis 2
Olive	Olive pits	Ethanol/benzene extractives 1.5%, alpha-cellulose 28%, pentosan 18.5%	Waste compounds	Extractives, hot water	11	% DM	ECN Phyllis 2
Wheat	Wheat bran		Waste compounds	Extractives, hot water	15.9	% DM	ECN Phyllis 2
Banana	Banana bunch		Waste compounds	Extractives, hot water	14.81	% DM	Binderless fiberboard from steam exploded banana bunch
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Undesirable components	Faecal coliform	3.87	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Undesirable components	Faecal coliform	ND	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Undesirable components	Faecal coliform	ND	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Fat	Tr	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Grape	Grape seeds		Proximates	Fat	12-17	g/100g	Utilization of fruit and vegetable wastes, FAO

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Fat	0.26	g/100g	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Fat	0.85	g/100g	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Fat	15.78	g/100g	Chemical characterization of tomato pomace
Poultry	Poultry heads and feet	Inedbile fattened chicken slaughtering by-products	Proximates	Fat	7.16	g/100g	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Fat	16.94	g/100g	Chemical characterization of tomato pomace

Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Fat	2.64	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Fat	1.14	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Fat	6.33	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Proximates	Fat	3.35	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Fat	4.74	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Sunflower	Sunflower oil cake		Proximates	Fat	1.7	% DM	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake

Bolti	Bolti fish	Whole	Proximates	Fat	16.05	% DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Bolti	Bolti fish	Flesh only	Proximates	Fat	7	% DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate

Fish, unspecified	Fish protein isolate		Proximates	Fat	2.3	% DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Palm	Palm empty fruit bunches	Oil palm empty fruit bunches before hydrothermal pretreatment	Proximates	Fat	22.2	% w/w DM	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion

Palm	Palm empty fruit bunches	Oil palm empty fruit bunches fibres after hydrothermal pretreatment	Proximates	Fat	11.2	% w/w DM	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion
Beef	Paunch		Proximates	Fat	0.5	% of total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Dissolved air flotation sludge		Proximates	Fat	1.9	% of total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Soft offal		Proximates	Fat	58.1	% of total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Mixture of paunch, dissolved air flotation sludge and soft offal at annual production ratios		Proximates	Fat	28.4	% of total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Animal by-products, unspecified	Greaves		Proximates	Fat	406	g/kg wet waste	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments
Animal by-products, unspecified	Rinds		Proximates	Fat	379	g/kg	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments

Nuts, unspecified	Nut hulls	Almond	Proximates	Fat	24.3	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Cotton	Cottonseed	Cracked Pima	Proximates	Fat	223	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Canola	Canola meal	Pellets (380g/kg CP, solvent)	Proximates	Fat	26.4	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Distillers grain	Distillers grain	High CP (corn with solubles)	Proximates	Fat	54.5	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Wheat	Wheat	Silage	Proximates	Fat	29.4	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Citrus, unspecified	Citrus pulp		Proximates	Fat	15.7	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Potato	Potato	Tubers (whole)	Proximates	Fat	<2.5	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Fat	3.42	%	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Fat	5.23	%	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Apple	Apple pomace, dried		Proximates	Fat	3.4-3.9	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Potato	Potato peel		Proximates	Fat	0.6-1	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Tomatoes	Tomato pomace		Proximates	Fat	0.3	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Tomatoes	Tomato pomace	Pulper stage of tomato processing for paste	Proximates	Fat	16.6	g/kg	Chemical characterizatio n of tomato pomace
Tomatoes	Tomato pomace	Finisher stage of tomato processing for paste	Proximates	Fat	4.6	g/kg	Chemical characterizatio n of tomato pomace

Tomatoes	Tomato pomace	Before turbopress stage of tomato processing for paste	Proximates	Fat	18.96	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	After turbopress stage of tomato processing for paste	Proximates	Fat	21.74	g/kg	Chemical characterization of tomato pomace
Potato	Potato peel	Mature potato peel - potatoes harvested after 20 weeks	Proximates	Fat	4.98	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato

Potato	Potato peel	Young potato peel - potatoes harvested after 14 weeks	Proximates	Fat	7.07	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato
Distillers grain	Distillers grain	Wet corn mash solids	Proximates	Fat	137	g/kg DM	Distillers grains as an energy source and effect of drying on protein availability
Distillers grain	Distillers corn stillage	Thin. Liquid from corn mash. Distilled, alcohol removed	Proximates	Fat	81	g/kg DM	Distillers grains as an energy source and effect of drying on protein availability
Potato	Potato peel	Ether extract. A review of different publications	Proximates	Fat	5.0-21.1	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production

Potato	Potato pulp	Ether extract. A review of different publications	Proximates	Fat	5.0-21.1	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato peel	Fermented. Ether extract. A review of different publications	Proximates	Fat	1.5	g/kg DM	Fermented. A review of different publications
Potato	Potato pulp	Ensiled. Ether extract. A review of different publications	Proximates	Fat	6.1-13	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	Solid fermented.Ether extract. A review of different publications	Proximates	Fat	19.2	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production

Potato	Potato pulp, dried	Ether extract. A review of different publications	Proximates	Fat	1.4	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Distillery by-products, unspecified	Distillers solids	Wet	Waste compounds	Fat (crude) digestibility	69.9	%	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Fat, acid hydrolysis	111	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Fat, acid hydrolysis	73	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Fat, acid hydrolysis	69	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Corn, with solubles	Proximates	Fat, crude	91	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Fat, crude	52	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Fat, crude	47	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Apple	Apple pomace	Wet	Proximates	Fat, crude	1.1-1.3	%	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Dried	Proximates	Fat, crude	4.2-4.8	%	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Powder	Proximates	Fat, crude	3.9	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Proximates	Fat, crude	8	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Proximates	Fat, crude	8.5	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Proximates	Fat, crude	6.2	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Pectin	Wet, apple pulp	Proximates	Fat, crude	0.9	%	Handbook of poultry feed from waste: processing and use
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Fat, crude	9.1	%	Wet brewers' grains for beef cattle
Apple	Apple pomace, dried	Powder	Proximates	Fat, crude	4.06	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Proximates	Fat, crude	8.36	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Proximates	Fat, crude	8.89	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Proximates	Fat, crude	6.43	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Fat, crude	12.9	% DM	NOSHAN
Grape	Grape pomace		Proximates	Fat, crude	2.6	% DM	NOSHAN
Barley	Malted barley germs		Proximates	Fat, crude	3.6	% DM	NOSHAN
Olive	Olive pomace		Proximates	Fat, crude	4.5	% DM	NOSHAN

Sugar beet	Sugar beet molasses	From pulp	Proximates	Fat, crude	4	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Fat, crude	2	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Fat, crude	8	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Grape	Grape pomace	Skin and seeds, white grape	Proximates	Fat, crude	50	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants

Grape	Grape pomace	Skin and seeds, red grape	Proximates	Fat, crude	71	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Soy	Soybean meal	Soya bean	Proximates	Fat, crude	20	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed cake		Proximates	Fat, crude	180	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Cabbage	Cabbage meal		Proximates	Fat, crude	32	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Fat, crude	1.3	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Fat, crude	32.1	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Citrus, unspecified	Citrus pulp silage		Proximates	Fat, crude	97	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange	Fresh, whole	Proximates	Fat, crude	19	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus meal, dried		Proximates	Fat, crude	36	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Fat, crude	49	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Fat, crude	37	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Proximates	Fat, crude	3	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Fat, crude	17	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Fat, crude	23	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp	Fresh	Proximates	Fat, crude	40	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Fat, crude	30	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp	Fresh	Proximates	Fat, crude	40	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Proximates	Fat, crude	16	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon, dried	Whole	Proximates	Fat, crude	39	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Proximates	Fat, crude	36	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Bergamot peel		Proximates	Fat, crude	13	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp	Fresh	Proximates	Fat, crude	63	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Mandarin, fresh	Proximates	Fat, crude	61	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses	Condensed solubles	Proximates	Fat, crude	2	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Fat, crude	40	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried	Ammoniated	Proximates	Fat, crude	64	g/kg DM	Citrus by-products as ruminant feeds: A review

Grapefruit	Grapefruit pulp, dried		Proximates	Fat, crude	35	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Proximates	Fat, crude	15	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Fat, crude	19	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Proximates	Fat, crude	37	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp	Wet	Proximates	Fat, crude	33	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus seed meal	Mechanical extract	Proximates	Fat, crude	116	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus molasses	Ammoniated	Proximates	Fat, crude	35	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp		Proximates	Fat, crude	33	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Fat, crude	38	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp silage		Proximates	Fat, crude	104	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp		Proximates	Fat, crude	44	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Proximates	Fat, crude	15	g/kg DM	Citrus by-products as ruminant feeds: A review

Lime	Lime pulp, dried		Proximates	Fat, crude	34	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange		Proximates	Fat, crude	19	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Wet	Proximates	Fat, crude	18	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange by-product, dried		Proximates	Fat, crude	30	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Proximates	Fat, crude	37	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp silage		Proximates	Fat, crude	22	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp, dried	Tangerine	Proximates	Fat, crude	57	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Fat, crude	48	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Fish, unspecified	Fish meal	Low temperature dried	Proximates	Fat, crude	110	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed

Wheat	Wheat gluten		Proximates	Fat, crude	50	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed
Soy	Soy protein concentrate		Proximates	Fat, crude	17	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed

Canola	Juncea canola meal		Proximates	Fat, crude	17.2	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Apple	Apple pomace		Proximates	Fat, crude	4.37	% DM	Apple pomace as a supplement to pasture for dairy cows in late lactation
Apple	Apple pomace, dried	Dried	Proximates	Fat, crude	5.2	% DM	2012FeedComp
Citrus, unspecified	Citrus pulp, dried		Proximates	Fat, crude	2.9	% DM	2012FeedComp
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Fat, crude	5.8	% DM	Utilization of fruit and vegetable wastes, FAO
Cranberry	Cranberry pulp meal		Proximates	Fat, crude	15.7	% DM	2012FeedComp
Orange	Orange pulp, dried		Proximates	Fat, crude	1.8	% DM	2012FeedComp

Grapefruit	Grapefruit pulp silage	Grapefruit. Source: Israel	Proximates	Fat, crude	2	% DM	Citrus by-products for animal feed
Orange	Orange pulp silage	Source: Israel	Proximates	Fat, crude	2.6	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus pulp, dried	Source: Trinidad	Proximates	Fat, crude	2.8	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus pulp, dried	Source: United States	Proximates	Fat, crude	3.9	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus molasses	Source: United States	Proximates	Fat, crude	0.3	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus seed meal	Source: United States	Proximates	Fat, crude	6.7	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus molasses		Proximates	Fat, crude	0.3	% DM	2012FeedComp
Tomatoes	Tomato pomace, dried	Dried	Proximates	Fat, crude	10.6	% DM	2012FeedComp
Tomatoes	Tomato pomace	Solanum lucopersicum	Proximates	Fat, crude	10.0-11.5	% DM	Vegetable waste as animal feed paper
Rice	Rice hull		Proximates	Fat, crude	0.9	% DM	2012FeedComp

Rice	Rice mill byproduct		Proximates	Fat, crude	5.7	% DM	2012FeedComp
Poultry	Feather meal	Hydrolyzed	Proximates	Fat, crude	7	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Beta vulgaris	Proximates	Fat, crude	1.1	% DM	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Fat, crude	3.5	% DM	Utilization of fruit and vegetable wastes, FAO
Barley	Barley grain screenings		Proximates	Fat, crude	2.6	% DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Fat, crude	7.5	% DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Proximates	Fat, crude	0.9	% DM	2012FeedComp
Grape	Grape pomace	Stemless	Proximates	Fat, crude	7.6	% DM	2012FeedComp
Grape	Grape pomace/marc	Namily vitaceae	Proximates	Fat, crude	5.0-7.1	% DM	Fruit waste as feed paper
Distillers grain	Distillers grain	Wet	Proximates	Fat, crude	9.6	% DM	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Proximates	Fat, crude	10	% DM	2012FeedComp

Distillers grain	Distillers grain	Sorghum, with solubles	Proximates	Fat, crude	10	% DM	2012FeedComp
Nuts, unspecified	Nut hulls	Almond	Proximates	Fat, crude	3.1	% DM	2012FeedComp
Apple	Apple		Proximates	Fat, crude	2.2	% DM	2012FeedComp
Apple	Apple pomace	Wet	Proximates	Fat, crude	5.2	% DM	2012FeedComp
Banana	Banana		Proximates	Fat, crude	0.8	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Proximates	Fat, crude	0.7	% DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Proximates	Fat, crude	0.7	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Proximates	Fat, crude	0.6	% DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Proximates	Fat, crude	0.6	% DM	2012FeedComp
Sugar beet	Sugar beet root		Proximates	Fat, crude	0.4	% DM	2012FeedComp
Sugar beet	Sugar beet tops		Proximates	Fat, crude	1.3	% DM	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Proximates	Fat, crude	2	% DM	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Proximates	Fat, crude	1.4	% DM	2012FeedComp

Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Proximates	Fat, crude	11.6	% DM	2012FeedComp
Bread	Bread by product		Proximates	Fat, crude	3	% DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	Fat, crude	7.5	% DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Proximates	Fat, crude	1	% DM	2012FeedComp
Butter	Buttermilk, dried		Proximates	Fat, crude	5	% DM	2012FeedComp
Bread	Calcium carbonate		Proximates	Fat, crude	0	% DM	2012FeedComp
Carrot	Carrot pulp		Proximates	Fat, crude	7.8	% DM	2012FeedComp
Carrot	Carrot	Roots, fresh	Proximates	Fat, crude	1.4	% DM	2012FeedComp
Carrot	Carrot tops		Proximates	Fat, crude	3.8	% DM	2012FeedComp
Beef	Cattle manure, dried	Dried	Proximates	Fat, crude	2.5	% DM	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Proximates	Fat, crude	6.8	% DM	2012FeedComp
Coffee	Coffee grounds		Proximates	Fat, crude	15	% DM	2012FeedComp

Cotton	Cottonseed hulls		Proximates	Fat, crude	1.8	% DM	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Proximates	Fat, crude	1.5	% DM	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Proximates	Fat, crude	5	% DM	2012FeedComp
Crab	Crab waste meal		Proximates	Fat, crude	3	% DM	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Proximates	Fat, crude	1.4	% DM	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Proximates	Fat, crude	17	% DM	2012FeedComp
Distillers grain	Distillers grain	Barley	Proximates	Fat, crude	8.5	% DM	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Proximates	Fat, crude	10	% DM	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Proximates	Fat, crude	10	% DM	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Proximates	Fat, crude	11.9	% DM	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Proximates	Fat, crude	13	% DM	2012FeedComp
Distillers grain	Distillers corn stillage		Proximates	Fat, crude	8.1	% DM	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Proximates	Fat, crude	10	% DM	2012FeedComp

Fish, unspecified	Fish meal		Proximates	Fat, crude	9	% DM	2012FeedComp
Flax/linseed	Flax seed hulls		Proximates	Fat, crude	1.5	% DM	2012FeedComp
Hop	Hop leaves		Proximates	Fat, crude	3.6	% DM	2012FeedComp
Hop	Hop vine silage		Proximates	Fat, crude	3.1	% DM	2012FeedComp
Hop	Hops	Spent	Proximates	Fat, crude	4.6	% DM	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Proximates	Fat, crude	1.7	% DM	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Proximates	Fat, crude	6	% DM	2012FeedComp
Poultry	Meat meal	Swine/poultry	Proximates	Fat, crude	10.5	% DM	2012FeedComp
Sugar beet	Sugar beet molasses		Proximates	Fat, crude	0.2	% DM	2012FeedComp
Sugar cane	Sugar cane molasses		Proximates	Fat, crude	0.5	% DM	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Proximates	Fat, crude	0.3	% DM	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Proximates	Fat, crude	1	% DM	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Proximates	Fat, crude	1.5	% DM	2012FeedComp

Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Proximates	Fat, crude	2.5	% DM	2012FeedComp
Nuts, unspecified	Nut skins	Peanut	Proximates	Fat, crude	22	% DM	2012FeedComp
Pineapple	Pineapple greenchop		Proximates	Fat, crude	2.4	% DM	2012FeedComp
Pineapple	Pineapple bran		Proximates	Fat, crude	1.5	% DM	2012FeedComp
Pineapple	Pineapple presscake		Proximates	Fat, crude	0.8	% DM	2012FeedComp
Potato	Potato vine silage		Proximates	Fat, crude	3.7	% DM	2012FeedComp
Potato	Potato	Cull	Proximates	Fat, crude	0.4	% DM	2012FeedComp
Potato	Potato waste	Wet	Proximates	Fat, crude	1.5	% DM	2012FeedComp
Potato	Potato waste, dried	Dried	Proximates	Fat, crude	0.5	% DM	2012FeedComp
Potato	Potato waste	Wet with lime	Proximates	Fat, crude	0.3	% DM	2012FeedComp
Potato	Potato waste	Filter cake	Proximates	Fat, crude	7.7	% DM	2012FeedComp
Poultry	Poultry by product meal		Proximates	Fat, crude	14.5	% DM	2012FeedComp
Poultry	Poultry manure, dried	Dried	Proximates	Fat, crude	2.1	% DM	2012FeedComp
Rice	Rice straw		Proximates	Fat, crude	1.4	% DM	2012FeedComp

Rice	Rice straw	Ammoniated	Proximates	Fat, crude	1.3	% DM	2012FeedComp
Rice	Rice grain		Proximates	Fat, crude	1.9	% DM	2012FeedComp
Rice	Rice polishings		Proximates	Fat, crude	14	% DM	2012FeedComp
Rice	Rice bran		Proximates	Fat, crude	16	% DM	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Proximates	Fat, crude	1.3	% DM	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Proximates	Fat, crude	0.8	% DM	2012FeedComp
Safflower	Safflower hulls		Proximates	Fat, crude	3.7	% DM	2012FeedComp
Shrimp	Shrimp waste meal		Proximates	Fat, crude	5.5	% DM	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Proximates	Fat, crude	2.8	% DM	2012FeedComp
Sunflower	Sunflower meal	With hulls	Proximates	Fat, crude	2.4	% DM	2012FeedComp
Sunflower	Sunflower seed hulls		Proximates	Fat, crude	2.2	% DM	2012FeedComp
Sugar cane	Sugar cane bagasse		Proximates	Fat, crude	0.6	% DM	2012FeedComp
Tomatoes	Tomato		Proximates	Fat, crude	4	% DM	2012FeedComp
Wheat	Wheat	Fresh, pasture	Proximates	Fat, crude	4	% DM	2012FeedComp

Wheat	Wheat hay		Proximates	Fat, crude	2	% DM	2012FeedComp
Wheat	Wheat silage		Proximates	Fat, crude	3.2	% DM	2012FeedComp
Wheat	Wheat straw		Proximates	Fat, crude	1.8	% DM	2012FeedComp
Wheat	Wheat straw	Ammoniated	Proximates	Fat, crude	1.5	% DM	2012FeedComp
Wheat	Wheat grain		Proximates	Fat, crude	2.3	% DM	2012FeedComp
Wheat	Wheat grain	Hard	Proximates	Fat, crude	2	% DM	2012FeedComp
Wheat	Wheat grain	Soft	Proximates	Fat, crude	2	% DM	2012FeedComp
Wheat	Wheat grain	Steam flaked	Proximates	Fat, crude	2.3	% DM	2012FeedComp
Wheat	Wheat grain	Sprouted	Proximates	Fat, crude	2	% DM	2012FeedComp
Wheat	Wheat bran		Proximates	Fat, crude	4.4	% DM	2012FeedComp
Wheat	Wheat middlings		Proximates	Fat, crude	4.7	% DM	2012FeedComp
Wheat	Wheat mill run		Proximates	Fat, crude	4.5	% DM	2012FeedComp
Wheat	Wheat shorts		Proximates	Fat, crude	5.3	% DM	2012FeedComp
Cheese	Whey, dried	Dried	Proximates	Fat, crude	0.9	% DM	2012FeedComp

Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Fat, crude	4.2	% DM	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Fat, crude	2.6	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Proximates	Fat, crude	1.4	% DM	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Proximates	Fat, crude	0.4	% DM	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Fat, crude	5.8	% DM	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Proximates	Fat, crude	5	% DM	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Proximates	Fat, crude	5-7.1	% DM	Utilization of fruit and vegetable wastes, FAO

Pineapple	Pineapple bran	Ananas comosus	Proximates	Fat, crude	1.5	% DM	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Fat, crude	11.5	% DM	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Fat, crude	6.2	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Proximates	Fat, crude	5.8	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Fat, crude	1.8	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Fat, crude	1.8	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Cull carrots	Proximates	Fat, crude	1.4	% DM	Vegetable waste as animal feed paper
Rice	Rice hay		Proximates	Fat, crude	1.8	% DM	Feedipedia

Rice	Rice, aerial part	Fresh	Proximates	Fat, crude	2	% DM	Feedipedia
Rice	Rice straw		Proximates	Fat, crude	1.4	% DM	Feedipedia
Rice	Rice straw	Urea-treated	Proximates	Fat, crude	1.3	% DM	Feedipedia
Rice	Rice straw	NaOH-treated	Proximates	Fat, crude	0.9	% DM	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Fat, crude	1.7	% DM	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Fat, crude	1.5	% DM	Feedipedia
Wheat	Triticale grain		Proximates	Fat, crude	1.5	% DM	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Fat, crude	2.7	% DM	Feedipedia
Wheat	Triticale straw		Proximates	Fat, crude	2.2	% DM	Feedipedia
Wheat	Wheat hay		Proximates	Fat, crude	1.3	% DM	Feedipedia
Wheat	Wheat straw		Proximates	Fat, crude	1.4	% DM	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Fat, crude	2.7	% DM	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Fat, crude	2	% DM	Feedipedia
Palm	Oil palm fronds, dried	Dried, Elaeis guineensis	Proximates	Fat, crude	1.9	% DM	Feedipedia
Palm	Oil palm fronds	Silage	Proximates	Fat, crude	2.2	% DM	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Fat, crude	4.5	% DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Fat, crude	8.2	% DM	Feedipedia

Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Fat, crude	8.5	% DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Fat, crude	7.5	% DM	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Fat, crude	0.2	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Fat, crude	6.7	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Fat, crude	7	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Fat, crude	7.4	% DM	Feedipedia
Rice	Rice grain	Polished	Proximates	Fat, crude	0.5	% DM	Feedipedia
Rice	Rice grain	Polished, parboiled	Proximates	Fat, crude	0.3	% DM	Feedipedia
Rice	Rice grain	Brown	Proximates	Fat, crude	2.2	% DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Fat, crude	1.7	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Fat, crude	11.1	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Fat, crude	5.1	% DM	Feedipedia

Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Fat, crude	4.2	% DM	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Fat, crude	13	% DM	Feedipedia
Distillery by-products, unspecified	Thin stillage		Proximates	Fat, crude	9.2	% DM	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Fat, crude	13.2	% DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Fat, crude	17.2	% DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Fat, crude	14.4	% DM	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Fat, crude	10.3	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Fat, crude	4.1	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Fat, crude	1	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Fat, crude	4.8	% DM	Feedipedia
Rice	Rice hull		Proximates	Fat, crude	1.5	% DM	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Fat, crude	2.1	% DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Proximates	Fat, crude	6.2	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Fat, crude	6.5	% DM	Feedipedia

Sorghum	Malted sorghum sprouts		Proximates	Fat, crude	2.8	% DM	Feedipedia
Distillers grain	Distillers grain	Fresh, Sorghum, with or without solubles	Proximates	Fat, crude	11.7	% DM	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Fat, crude	9.4	% DM	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Fat, crude	5.8	% DM	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Fat, crude	7.3	% DM	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Fat, crude	18.1	% DM	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Fat, crude	3.4	% DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Fat, crude	3.6	% DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Fat, crude	3.6	% DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Fat, crude	3.5	% DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Fat, crude	3.8	% DM	Feedipedia
Wheat	Wheat starch		Proximates	Fat, crude	0.2	% DM	Feedipedia
Wheat	Wheat bran		Proximates	Fat, crude	3.9	% DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Fat, crude	5	% DM	Feedipedia

Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Fat, crude	4.9	% DM	Feedipedia
Wheat	Wheat germs		Proximates	Fat, crude	9.7	% DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Proximates	Fat, crude	3.1	% DM	Feedipedia
Wheat	Wheat grain		Proximates	Fat, crude	1.7	% DM	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Fat, crude	2	% DM	Feedipedia
Wheat	Wheat screenings		Proximates	Fat, crude	2.4	% DM	Feedipedia
Nuts, unspecified	Nut kernels	Almond	Proximates	Fat, crude	57.4	% DM	Feedipedia
Nuts, unspecified	Nut oil meal	Almond, dehulled, mechanical extraction	Proximates	Fat, crude	5.5	% DM	Feedipedia
Nuts, unspecified	Nut oil meal	Almond, with hulls, mechanical extraction	Proximates	Fat, crude	4.3	% DM	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Proximates	Fat, crude	4.4	% DM	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Proximates	Fat, crude	6	% DM	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Proximates	Fat, crude	14.2	% DM	Feedipedia

Argan	Argan oil cake	Solvent-extracted, Argania spinosa	Proximates	Fat, crude	0.1	% DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Fat, crude	44	% DM	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Proximates	Fat, crude	16.9	% DM	Feedipedia
Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Fat, crude	3.6	% DM	Feedipedia
Castor	Castor hulls	Ricinus communis	Proximates	Fat, crude	2.2	% DM	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Fat, crude	1	% DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Fat, crude	5.9	% DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Fat, crude	2	% DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Fat, crude	2.7	% DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Fat, crude	9.8	% DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Fat, crude	2.8	% DM	Feedipedia
Coconut	Coconut copra	Fresh	Proximates	Fat, crude	66.2	% DM	Feedipedia
Coconut	Coconut coir dust		Proximates	Fat, crude	0.7	% DM	Feedipedia

Coconut	Coconut water		Proximates	Fat, crude	6	% DM	Feedipedia
Cotton	Cotton straw		Proximates	Fat, crude	1.7	% DM	Feedipedia
Cotton	Cotton leaves	Fresh	Proximates	Fat, crude	9.5	% DM	Feedipedia
Cotton	Cottonseed hulls		Proximates	Fat, crude	3.2	% DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Fat, crude	3	% DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Fat, crude	8.9	% DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Fat, crude	10.8	% DM	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Fat, crude	3.1	% DM	Feedipedia
Flax/linseed	Flax straw		Proximates	Fat, crude	2.8	% DM	Feedipedia
Flax/linseed	Flax chaff		Proximates	Fat, crude	3.4	% DM	Feedipedia
Flax/linseed	Flax shives		Proximates	Fat, crude	1.9	% DM	Feedipedia
Flax/linseed	Flax, aerial part	Fresh	Proximates	Fat, crude	3.6	% DM	Feedipedia
Flax/linseed	Flax hay		Proximates	Fat, crude	4.8	% DM	Feedipedia
Grape	Grape seeds		Proximates	Fat, crude	12.7	% DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Fat, crude	1.5	% DM	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Proximates	Fat, crude	7.3	% DM	Feedipedia
Flax/linseed	Linseed meal		Proximates	Fat, crude	10.2	% DM	Feedipedia

Flax/linseed	Linseed meal	Solvent extraction	Proximates	Fat, crude	3.6	% DM	Feedipedia
Flax/linseed	Linseeds		Proximates	Fat, crude	37.2	% DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Fat, crude	8.1	% DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Fat, crude	2.8	% DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Fat, crude	14.6	% DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Fat, crude	1	% DM	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Fat, crude	23.4	% DM	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Fat, crude	48.4	% DM	Feedipedia
Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Proximates	Fat, crude	9.4	% DM	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Fat, crude	2.3	% DM	Feedipedia
Mustard	Mustard seeds	Brassica sp.	Proximates	Fat, crude	46.7	% DM	Feedipedia
Palm	Oil palm kernels		Proximates	Fat, crude	47.9	% DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Fat, crude	12.4	% DM	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Fat, crude	19.5	% DM	Feedipedia

Olive	Olive oil cake	Exhausted, with stones	Proximates	Fat, crude	3	% DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Proximates	Fat, crude	5.4	% DM	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Fat, crude	34.5	% DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Fat, crude	4	% DM	Feedipedia
Olive	Olive pits	Exhausted	Proximates	Fat, crude	0.8	% DM	Feedipedia
Olive	Olive kernels	Exhausted	Proximates	Fat, crude	7.5	% DM	Feedipedia
Olive	Olive skins		Proximates	Fat, crude	14.9	% DM	Feedipedia
Olive	Olive oil vegetation water		Proximates	Fat, crude	1.2	% DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Fat, crude	9.2	% DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Fat, crude	2.8	% DM	Feedipedia
Palm	Palm oil mill effluent	Decanted	Proximates	Fat, crude	29.2	% DM	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Fat, crude	12.1	% DM	Feedipedia
Palm	Palm press fibre	High oil	Proximates	Fat, crude	26.5	% DM	Feedipedia
Palm	Palm press fibre	Low oil	Proximates	Fat, crude	4.1	% DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Fat, crude	1.7	% DM	Feedipedia

Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Fat, crude	2.8	% DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Fat, crude	2	% DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Fat, crude	2.1	% DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Fat, crude	0.9	% DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Fat, crude	9.8	% DM	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Fat, crude	47.6	% DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Proximates	Fat, crude	31.9	% DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Fat, crude	15.9	% DM	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Fat, crude	10.3	% DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Fat, crude	1.2	% DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Fat, crude	40.5	% DM	Feedipedia

Pumpkin	Pumpkin	Fruits, fresh, Cucurbita sp.	Proximates	Fat, crude	2.6	% DM	Feedipedia
Pumpkin	Pumpkin	Fruits, dried, Cucurbita sp.	Proximates	Fat, crude	6.2	% DM	Feedipedia
Pumpkin	Pumpkin hulls	Cucurbita sp.	Proximates	Fat, crude	5.9	% DM	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Fat, crude	1.3	% DM	Feedipedia
Pumpkin	Pumpkin oil meal	Mechanical extraction, Cucurbita sp.	Proximates	Fat, crude	13	% DM	Feedipedia
Pumpkin	Pumpkin seeds	With hulls, Cucurbita sp.	Proximates	Fat, crude	38.9	% DM	Feedipedia
Pumpkin	Pumpkin seeds	Without hulls, Cucurbita sp.	Proximates	Fat, crude	49.9	% DM	Feedipedia
Rape	Rape forage	Fresh	Proximates	Fat, crude	1.8	% DM	Feedipedia
Rape	Rape forage, dried	Dehydrated	Proximates	Fat, crude	2.7	% DM	Feedipedia
Rape	Rape straw		Proximates	Fat, crude	1.9	% DM	Feedipedia
Rape	Rapeseed hulls		Proximates	Fat, crude	14.1	% DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Fat, crude	2.7	% DM	Feedipedia

Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Fat, crude	9.2	% DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Fat, crude	3.9	% DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Fat, crude	46	% DM	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Fat, crude	3.6	% DM	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Fat, crude	9.4	% DM	Feedipedia
Safflower	Safflower meal	Without hulls, expeller extraction. Carthamus tinctorius	Proximates	Fat, crude	9.7	% DM	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Fat, crude	32.2	% DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Fat, crude	11.3	% DM	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Fat, crude	2.6	% DM	Feedipedia
Sesame	Sesame seeds	Whole	Proximates	Fat, crude	49.7	% DM	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Fat, crude	4.4	% DM	Feedipedia

Soy	Soybean hay		Proximates	Fat, crude	5.4	% DM	Feedipedia
Soy	Soybean straw		Proximates	Fat, crude	3.5	% DM	Feedipedia
Soy	Soybean hulls		Proximates	Fat, crude	2.2	% DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Fat, crude	2	% DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Fat, crude	1.8	% DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Fat, crude	7.7	% DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Fat, crude	21.4	% DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Fat, crude	20.9	% DM	Feedipedia
Soy	Soybeans	Toasted	Proximates	Fat, crude	22.1	% DM	Feedipedia
Soy	Soybeans	Extruded	Proximates	Fat, crude	20.7	% DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Fat, crude	2.2	% DM	Feedipedia
Sunflower	Sunflower forage	Silage	Proximates	Fat, crude	5	% DM	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Proximates	Fat, crude	1.5	% DM	Feedipedia
Sunflower	Sunflower heads	Without seeds	Proximates	Fat, crude	4.2	% DM	Feedipedia

Sunflower	Sunflower stalks		Proximates	Fat, crude	1.5	% DM	Feedipedia
Sunflower	Sunflower hulls		Proximates	Fat, crude	5.2	% DM	Feedipedia
Sunflower	Sunflower screenings		Proximates	Fat, crude	8.5	% DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Fat, crude	2.2	% DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Fat, crude	1.8	% DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Fat, crude	2.3	% DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Fat, crude	13.8	% DM	Feedipedia
Sunflower	Sunflower seeds		Proximates	Fat, crude	47.9	% DM	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Fat, crude	6.8	% DM	Feedipedia
Nuts, unspecified	Nut hulls	Walnut (Juglans regia)	Proximates	Fat, crude	0.8	% DM	Feedipedia

Nuts, unspecified	Nut kernels	Walnut (Juglans regia)	Proximates	Fat, crude	58.2	% DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Fat, crude	1.6	% DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Proximates	Fat, crude	26	% DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, high fibre	Proximates	Fat, crude	11.3	% DM	Feedipedia
Melon	Watermelon, hulls	Citrullus lanatus	Proximates	Fat, crude	3.2	% DM	Feedipedia
Melon	Watermelon, seeds	Decorticated. Citrullus lanatus	Proximates	Fat, crude	46.7	% DM	Feedipedia
Melon	Watermelon, seeds	Whole. Citrullus lanatus	Proximates	Fat, crude	35.4	% DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Fat, crude	2.8	% DM	Feedipedia

Apple	Apple pomace	Fresh	Proximates	Fat, crude	4.2	% DM	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Fat, crude	0.9	% DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Fat, crude	1.8	% DM	Feedipedia
Apple	Apple pomace	Malus domestica	Proximates	Fat, crude	5	% DM	Fruit waste as feed paper
Carrot	Carrot	Daucus carota	Proximates	Fat, crude	1.4	% DM	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Proximates	Fat, crude	1.8	% DM	Vegetable waste as animal feed paper
Cucumber	Cucumber	Cucumis sativus	Proximates	Fat, crude	1.3	% DM	Vegetable waste as animal feed paper
Cucumber	Cucumber peel	Cucumis sativus	Proximates	Fat, crude	3	% DM	Vegetable waste as animal feed paper
Food, unspecified	Grocery by-product waste	Fruits, vegetables and bakery items from retail grocery stores	Proximates	Fat, crude	11.3	% DM	Vegetable waste as animal feed paper

Potato	Potato	Solanum tuberosum	Proximates	Fat, crude	0.4	% DM	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Proximates	Fat, crude	0.5-0.6	% DM	Vegetable waste as animal feed paper
Pumpkin	Pumpkin oil meal	Cucurbita pepo	Proximates	Fat, crude	1.3	% DM	Vegetable waste as animal feed paper
Tomatoes	Tomato	L.esculentum	Proximates	Fat, crude	2.8	% DM	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Fat, crude	10-11.5	% DM	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Proximates	Fat, crude	2.6	% DM	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Proximates	Fat, crude	4.2	% DM	Vegetable waste as animal feed paper

Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Fat, crude	3.5	% DM	Vegetable waste as animal feed paper
Bakery	Bakery product, dried	Dried	Proximates	Fat, crude	11.5	% DM	2012FeedComp
Canola	Canola meal	Solv. Ext.	Proximates	Fat, crude	2	% DM	2012FeedComp
Cotton	Cottonseed	Whole	Proximates	Fat, crude	19.4	% DM	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Proximates	Fat, crude	22.9	% DM	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Proximates	Fat, crude	9.5	% DM	2012FeedComp
Grain, unspecified	Grain screenings		Proximates	Fat, crude	5.5	% DM	2012FeedComp
Grain, unspecified	Grain dust		Proximates	Fat, crude	2.2	% DM	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Proximates	Fat, crude	10	% DM	2012FeedComp
Milk	Milk, dried	Dry, skim	Proximates	Fat, crude	0.9	% DM	2012FeedComp

Sugar beet	Sugar beet pulp		Proximates	Fat, crude	0.31	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Fat, crude	0.74	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Fat, crude	0.75	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Rice	Rice bran		Proximates	Fat, crude	18.4	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Fat, crude	20.79	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Fat, crude	24.25	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Almond	Almond hulls		Proximates	Fat, crude	2.41	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Fat, crude	2.42	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Fat, crude	2.61	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Citrus, unspecified	Citrus pulp		Proximates	Fat, crude	1.14	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Fat, crude	1.1	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Fat, crude	4.46	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Bakery	Bakery waste		Proximates	Fat, crude	6.35	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Fat, crude	11.7	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Fat, crude	7.71	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Wheat	Wheat mill run		Proximates	Fat, crude	4.39	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Fat, crude	5.31	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Fat, crude	7.49	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Fat, crude	4.96	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Fat, crude	5.52	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Fat, crude	9.27	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Distillers grain	Distillers grain		Proximates	Fat, crude	11.2	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Fat, crude	10.79	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Banana	Banana fruits	Mature, without peel, fresh	Proximates	Fat, crude	0.5	% DM	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Fat, crude	1.3	% DM	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Proximates	Fat, crude	2.1	% DM	Feedipedia
Banana	Banana fruits, ensiled	Immature, ensiled	Proximates	Fat, crude	3.5	% DM	Feedipedia

Banana	Banana fruits, dried	Immature, without peel, dehydrated	Proximates	Fat, crude	0.6	% DM	Feedipedia
Plantain	Plantain banana fruits	Fresh	Proximates	Fat, crude	0.8	% DM	Feedipedia
Plantain	Plantain banana fruits, dried	Dehydrated	Proximates	Fat, crude	1.8	% DM	Feedipedia
Plantain	Plantain banana fruits	Without peel, cooked	Proximates	Fat, crude	0.1	% DM	Feedipedia
Banana	Banana flour		Proximates	Fat, crude	3.1	% DM	Feedipedia
Banana	Banana shoots	Fresh	Proximates	Fat, crude	5.8	% DM	Feedipedia
Plantain	Plantain banana trunk	Fresh	Proximates	Fat, crude	1.5	% DM	Feedipedia
Banana	Banana leaves, dried	Dehydrated	Proximates	Fat, crude	7.7	% DM	Feedipedia
Banana	Banana stalks	Fresh	Proximates	Fat, crude	3.5	% DM	Feedipedia
Banana	Banana	Aerial part, fresh	Proximates	Fat, crude	0.8	% DM	Feedipedia
Plantain	Plantain banana shoots	Fresh	Proximates	Fat, crude	2.8	% DM	Feedipedia
Plantain	Plantain banana leaves	Fresh	Proximates	Fat, crude	5.6	% DM	Feedipedia
Banana	Banana peel	Mature, fresh	Proximates	Fat, crude	11.6	% DM	Feedipedia
Banana	Banana peel	Immature, fresh	Proximates	Fat, crude	6	% DM	Feedipedia

Plantain	Plantain banana peel	Mature, fresh	Proximates	Fat, crude	7	% DM	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Proximates	Fat, crude	5.4	% DM	Feedipedia
Citrus, unspecified	Citrus, dried	Fruits, dried	Proximates	Fat, crude	3.9	% DM	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Fat, crude	1	% DM	Feedipedia
Lime	Lime	Fruits (Citrus aurantiifolia)	Proximates	Fat, crude	9.4	% DM	Feedipedia
Grapefruit	Grapefruit	Fruits (Citrus paradisi), fresh	Proximates	Fat, crude	2.4	% DM	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Fat, crude	4	% DM	Feedipedia
Citrus, unspecified	Citrus molasses		Proximates	Fat, crude	0.3	% DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Fat, crude	2.4	% DM	Feedipedia
Orange	Orange pulp, dried		Proximates	Fat, crude	2.5	% DM	Feedipedia
Orange	Orange pulp, dried	Mandarin	Proximates	Fat, crude	3.2	% DM	Feedipedia
Lemon	Lemon pulp, dried		Proximates	Fat, crude	1.1	% DM	Feedipedia
Orange	Orange pulp	Fresh	Proximates	Fat, crude	4.6	% DM	Feedipedia
Grapefruit	Grapefruit pulp	Fresh	Proximates	Fat, crude	0.4	% DM	Feedipedia

Orange	Orange pulp	Clementine, fresh	Proximates	Fat, crude	4	% DM	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Fat, crude	6.1	% DM	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Fat, crude	5.7	% DM	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Fat, crude	1.9	% DM	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Fat, crude	2.6	% DM	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Fat, crude	1.7	% DM	Feedipedia
Grapefruit	Grapefruit peel silage	Grapefruit	Proximates	Fat, crude	2	% DM	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Fat, crude	5	% DM	Feedipedia
Lime	Lime peel silage	Lime	Proximates	Fat, crude	6.4	% DM	Feedipedia
Citrus, unspecified	Citrus seed meal		Proximates	Fat, crude	2.9	% DM	Feedipedia
Lime	Lime seeds	Lime (Citrus aurantiifolia)	Proximates	Fat, crude	12.5	% DM	Feedipedia
Coffee	Coffee hulls		Proximates	Fat, crude	1.7	% DM	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Fat, crude	2.3	% DM	Feedipedia
Coffee	Instant coffee by product		Proximates	Fat, crude	23.5	% DM	Feedipedia
Coffee	Coffee oil meal	By product of essential oil extraction	Proximates	Fat, crude	1.6	% DM	Feedipedia

Coffee	Coffee leaves		Proximates	Fat, crude	5.9	% DM	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Fat, crude	2.3	% DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Fat, crude	0.6	% DM	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Fat, crude	1	% DM	Feedipedia
Date	Date palm leaves	Fresh	Proximates	Fat, crude	1.9	% DM	Feedipedia
Date	Date palm leaves, dried	Dry	Proximates	Fat, crude	2	% DM	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Fat, crude	6.1	% DM	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Fat, crude	5.2	% DM	Feedipedia
Grape	Grape pomace	Silage	Proximates	Fat, crude	6.8	% DM	Feedipedia
Melon	Melon	Aerial part, fresh. Cucumis melo	Proximates	Fat, crude	2.8	% DM	Feedipedia
Melon	Melon	Fruit, fresh. Cucumis melo	Proximates	Fat, crude	4.8	% DM	Feedipedia

Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Fat, crude	1.2	% DM	Feedipedia
Pineapple	Pineapple leaves	Fresh, Ananas comosus	Proximates	Fat, crude	1.6	% DM	Feedipedia
Pineapple	Pineapple leaves	Silage, Ananas comosus	Proximates	Fat, crude	2.9	% DM	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Fat, crude	1.5	% DM	Feedipedia
Tomatoes	Tomato plant	Fresh, whole plant	Proximates	Fat, crude	1.2	% DM	Feedipedia
Melon	Watermelon	Aerial part, fresh. Citrullus lanatus	Proximates	Fat, crude	2.2	% DM	Feedipedia
Melon	Watermelon	Fruit, fresh. Citrullus lanatus	Proximates	Fat, crude	8.9	% DM	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Fat, crude	0.2	% DM	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Fat, crude	1	% DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Fat, crude	2.2	% DM	Feedipedia
Carrot	Carrot tops	Fresh	Proximates	Fat, crude	2.3	% DM	Feedipedia
Potato	Potato, aerial part	Ensiled	Proximates	Fat, crude	10.8	% DM	Feedipedia
Potato	Potato leaves, dried	Dried	Proximates	Fat, crude	6.4	% DM	Feedipedia

Potato	Potato aerial part	Fresh	Proximates	Fat, crude	4.3	% DM	Feedipedia
Potato	Potato peel	Fresh	Proximates	Fat, crude	0.5	% DM	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Fat, crude	0.5	% DM	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Fat, crude	0.9	% DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Fat, crude	0.7	% DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Fat, crude	0.5	% DM	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Proximates	Fat, crude	1.2	% DM	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Fat, crude	0.5	% DM	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Proximates	Fat, crude	1.3	% DM	Feedipedia
Sugar beet	Sugar beet leaves and tops	Fresh	Proximates	Fat, crude	3	% DM	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Fat, crude	4.5	% DM	Feedipedia
Sugar beet	Sugar beet tops	Silage	Proximates	Fat, crude	5.8	% DM	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Proximates	Fat, crude	1.1	% DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Fat, crude	4.8	% DM	Feedipedia

Potato	Sweet potato, aerial part, dried	Dry	Proximates	Fat, crude	2.8	% DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Fat, crude	1.1	% DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Fat, crude	1.3	% DM	Feedipedia
Sugar	Sugar, feed grade		Proximates	Fat, crude	0	% DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Fat, crude	0.9	% DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Fat, crude	0.6	% DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Fat, crude	1	% DM	Feedipedia
Sugar by-products, unspecified	Bagasse	NaOH-treated, fresh	Proximates	Fat, crude	0.2	% DM	Feedipedia
Sugar by-products, unspecified	Bagasse pith		Proximates	Fat, crude	1.5	% DM	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Fat, crude	1	% DM	Feedipedia
Sugar cane	Sugar cane, syrup-off		Proximates	Fat, crude	0	% DM	Feedipedia
Sugar cane	Sugar cane mud	Filter press mud	Proximates	Fat, crude	10.9	% DM	Feedipedia

Sugar cane	Sugar cane mud	Rotary-filter mud	Proximates	Fat, crude	7.5	% DM	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Fat, crude	1.5	% DM	Feedipedia
Sugar cane	Sugar cane tops	Silage	Proximates	Fat, crude	1.6	% DM	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Fat, crude	6.7	% DM	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Proximates	Fat, crude	2.6	% DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Fat, crude	0.5	% DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Fat, crude	0.3	% DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Fat, crude	0.3	% DM	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Fat, crude	0.2	% DM	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Fat, crude	2.2	% DM	Feedipedia
Lamb	Wool meal	Hydrolysed	Proximates	Fat, crude	10.2	% DM	Feedipedia

Animal by-products, unspecified	Blood meal		Proximates	Fat, crude	0.8	% DM	Feedipedia
Animal by-products, unspecified	Blood meal	Preserved with acid	Proximates	Fat, crude	0.2	% DM	Feedipedia
Animal by-products, unspecified	Blood meal	Non-industrial	Proximates	Fat, crude	0.5	% DM	Feedipedia
Animal by-products, unspecified	Blood	Fresh	Proximates	Fat, crude	1.3	% DM	Feedipedia
Animal by-products, unspecified	Blood	Chicken, fresh	Proximates	Fat, crude	2.3	% DM	Feedipedia
Animal by-products, unspecified	Blood	Moist	Proximates	Fat, crude	4.3	% DM	Feedipedia
Animal by-products, unspecified	Bone meal	Calcinated	Proximates	Fat, crude	0	% DM	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Fat, crude	4	% DM	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Fat, crude	2	% DM	Feedipedia
Crab	Crab meal, dried	Dehydrated	Proximates	Fat, crude	2.4	% DM	Feedipedia

Crab	Crab shells	Ground	Proximates	Fat, crude	1.6	% DM	Feedipedia
Eggs	Eggshells		Proximates	Fat, crude	2.9	% DM	Feedipedia
Poultry	Feather meal		Proximates	Fat, crude	6.7	% DM	Feedipedia
Fish, unspecified	Fish hydrolysate		Proximates	Fat, crude	32.6	% DM	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Fat, crude	11.1	% DM	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Fat, crude	4.3	% DM	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Fat, crude	16.4	% DM	Feedipedia
Fish, unspecified	Fish solubles	Menhaden, fresh	Proximates	Fat, crude	17.4	% DM	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Fat, crude	10.8	% DM	Feedipedia
Frog	Frog meal	Whole frog	Proximates	Fat, crude	9.1	% DM	Feedipedia
Poultry	Hatchery by product		Proximates	Fat, crude	11.3	% DM	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Fat, crude	4.7	% DM	Feedipedia
Lamb	Lamb hooves	Raw	Proximates	Fat, crude	14.7	% DM	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Fat, crude	3.5	% DM	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Fat, crude	5.4	% DM	Feedipedia

Animal by-products, unspecified	Liver meal	All species	Proximates	Fat, crude	13	% DM	Feedipedia
Animal by-products, unspecified	Liver meal	Cattle	Proximates	Fat, crude	16.6	% DM	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Fat, crude	2.8	% DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Fat, crude	2.4	% DM	Feedipedia
Rabbit	Rabbit manure, dried	Dehydrated	Proximates	Fat, crude	1.9	% DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Fat, crude	11.4	% DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Fat, crude	3.7	% DM	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Fat, crude	27.9	% DM	Feedipedia
Poultry	Poultry by product meal	High protein	Proximates	Fat, crude	11.2	% DM	Feedipedia
Poultry	Poultry feet	Chicken, raw	Proximates	Fat, crude	26.3	% DM	Feedipedia
Poultry	Poultry heads	Chicken, raw	Proximates	Fat, crude	23.3	% DM	Feedipedia
Poultry	Poultry viscera	Chicken, raw	Proximates	Fat, crude	42.4	% DM	Feedipedia
Beef	Rumen content	Calves, fresh	Proximates	Fat, crude	2.6	% DM	Feedipedia
Beef	Rumen content	Cattle, fresh	Proximates	Fat, crude	2.3	% DM	Feedipedia

Beef	Rumen content	Dehydrated	Proximates	Fat, crude	14.6	% DM	Feedipedia
Beef	Rumen content	Lambs, fresh	Proximates	Fat, crude	4.6	% DM	Feedipedia
Shrimp	Shrimp heads	Fresh	Proximates	Fat, crude	3.9	% DM	Feedipedia
Shrimp	Shrimp heads, dried	Dehydrated	Proximates	Fat, crude	4.6	% DM	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Fat, crude	2.8	% DM	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Fat, crude	6.1	% DM	Feedipedia
Shrimp	Shrimp waste	Ensiled, fresh	Proximates	Fat, crude	2.8	% DM	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Fat, crude	5	% DM	Feedipedia
Snail	Snail meal	With shells	Proximates	Fat, crude	4.2	% DM	Feedipedia
Snail	Snail meal	Without shells	Proximates	Fat, crude	7.3	% DM	Feedipedia
Squid	Squid meal		Proximates	Fat, crude	5	% DM	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Fat, crude	10.7	% DM	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Fat, crude	11.3	% DM	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Fat, crude	11.6	% DM	Feedipedia
Toad	Toad meal		Proximates	Fat, crude	10.2	% DM	Feedipedia
Whale	Whale meal		Proximates	Fat, crude	8.4	% DM	Feedipedia

Whale	Whale solubles	Condensed	Proximates	Fat, crude	0.4	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Fat, crude	2.4	% DM	Feedipedia
Bakery	Bakery and viennoiserie by products		Proximates	Fat, crude	5.5	% DM	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Fat, crude	6.1	% DM	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Fat, crude	11	% DM	Feedipedia
Corn	Maize starch		Proximates	Fat, crude	0.4	% DM	Feedipedia
Cassava	Cassava starch		Proximates	Fat, crude	0.1	% DM	Feedipedia
Apple	Apple pomace	From juice making	Proximates	Fat, crude	57.6	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making

Apple	Apple pomace	From puree making	Proximates	Fat, crude	65	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Canola	Canola meal	Average of analysed values	Proximates	Fat, crude	35	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Grape	Grape marc	Grape marc from Gonzlez-Byass	Proximates	Fat, crude	56.3	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc	Grape marc from Movialsa	Proximates	Fat, crude	47.7	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape vine shoot		Proximates	Fat, crude	4.74	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	White	Proximates	Fat, crude	8.4	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Red	Proximates	Fat, crude	15.1	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	Sherry	Proximates	Fat, crude	23.1	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc and lees		Proximates	Fat, crude	44.3	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Rape	Rapeseed hulls	Purified	Proximates	Fat, crude	81.6	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls
Rye	Seed residue		Proximates	Fat, crude	28	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Fat, crude	18	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Fat, crude	117	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Fat, crude	54	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Fat, crude	6	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Fat, crude	26	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Fat, crude	28	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Fat, crude	34	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Fat, crude	108	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Fat, crude	54	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Grape	Grape seeds	White, Italian	Proximates	Fat, crude	145	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Red, Italian	Proximates	Fat, crude	117	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Californian	Proximates	Fat, crude	95	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Not ensiled	Proximates	Fat, crude	127	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Ensiled for 45 days	Proximates	Fat, crude	111	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	White, Italian	Proximates	Fat, crude	101	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Red, Italian	Proximates	Fat, crude	90	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Californian	Proximates	Fat, crude	59	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Not ensiled	Proximates	Fat, crude	85	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Ensiled for 45 days	Proximates	Fat, crude	81	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Fat, crude	83.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Fat, crude	104.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Fat, crude	102.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Fat, crude	111.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Fat, crude	107.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Fat, crude	92.7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Fat, crude	98.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Fat, crude	107.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Fat, crude	87.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Fat, crude	98.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Fat, crude	81	g/kg DM	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Barley	Barley		Proximates	Fat, crude	18	g/kg DM	Wet barley distillers solids as a protein source for growing pigs

Soy	Soybean meal	Soyabean meal	Proximates	Fat, crude	69	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Fat, crude	80	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Nuts, unspecified	Nut meal	Babacu	Proximates	Fat, crude	31	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Proximates	Fat, crude	350	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cassava	Cassava meal		Proximates	Fat, crude	6	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Proximates	Fat, crude	170	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Proximates	Fat, crude	51	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cotton	Cottonseed meal	solv	Proximates	Fat, crude	18	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Proximates	Fat, crude	73	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Proximates	Fat, crude	128	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Rice	Rice bran	Defatted	Proximates	Fat, crude	18	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Proximates	Fat, crude	17	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Proximates	Fat, crude	9	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Wheat	Wheat bran		Proximates	Fat, crude	31	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Grape	Grape pomace	Red grapes	Proximates	Fat, crude	5-7	%	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pomace		Proximates	Fat, crude	1.8	%	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato	Cull	Proximates	Fat, crude	4-5	%	Utilization of fruit and vegetable wastes, FAO

Beef	Rumen content	Abattoir waste	Proximates	Fat, crude	3.35	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Fat, crude	6.55	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Fat, crude	1.6	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Fat, crude	26	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Fat, crude	17	g/kg DM	Nutritive value of plantain and chicory for pigs
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Fat, crude, HCl hydrolysis	11.1	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Fat, crude, HCl hydrolysis	8.6	% DM	Feedipedia

Rice	Rice bran	Fibre >20%	Proximates	Fat, crude, HCl hydrolysis	11.1	% DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Fat, crude, HCl hydrolysis	1.8	% DM	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Fat, crude, HCl hydrolysis	4.7	% DM	Feedipedia
Flax/linseed	Linseeds		Proximates	Fat, crude, HCl hydrolysis	40.2	% DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Fat, crude, HCl hydrolysis	11.5	% DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Fat, crude, HCl hydrolysis	4	% DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Fat, crude, HCl hydrolysis	16	% DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Fat, crude, HCl hydrolysis	4.4	% DM	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Fat, crude, HCl hydrolysis	24	% DM	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Fat, crude, HCl hydrolysis	46.6	% DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Fat, crude, HCl hydrolysis	4.2	% DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Fat, crude, HCl hydrolysis	2.4	% DM	Feedipedia
Rape	Rape straw		Proximates	Fat, crude, HCl hydrolysis	1.4	% DM	Feedipedia

Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Fat, crude, HCl hydrolysis	4.1	% DM	Feedipedia
Banana	Banana flour		Proximates	Fat, crude, HCl hydrolysis	3.8	% DM	Feedipedia
Melon	Melon seeds	Cucumis melo	Proximates	Fat, crude, HCl hydrolysis	8.9	% DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Fat, crude, HCl hydrolysis	1.5	% DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Fat, crude, HCl hydrolysis	2.1	% DM	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Fat, crude, HCl hydrolysis	15.6	% DM	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Fat, crude, HCl hydrolysis	1.8	% DM	Feedipedia
Poultry	Feather meal		Proximates	Fat, crude, HCl hydrolysis	9.5	% DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Fat, crude, HCl hydrolysis	11	% DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Fat, crude, HCl hydrolysis	9.9	% DM	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Fat, crude, HCl hydrolysis	10.3	% DM	Feedipedia

Animal by-products, unspecified	Liver meal	All species	Proximates	Fat, crude, HCl hydrolysis	18.6	% DM	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Fat, crude, HCl hydrolysis	14.5	% DM	Feedipedia
Animal by-products, unspecified	Liver meal	Poultry	Proximates	Fat, crude, HCl hydrolysis	22.7	% DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Fat, crude, HCl hydrolysis	12.1	% DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Fat, crude, HCl hydrolysis	5.3	% DM	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Fat, crude, HCl hydrolysis	24.4	% DM	Feedipedia
Squid	Squid meal		Proximates	Fat, crude, HCl hydrolysis	5	% DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Fat, crude, HCl hydrolysis	1.3	% DM	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Fat, crude, HCl hydrolysis	2.2	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Fat, crude, HCl hydrolysis	4.1	% DM	Feedipedia

Bakery	Bakery and viennoiserie by products		Proximates	Fat, crude, HCl hydrolysis	7.2	% DM	Feedipedia
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Proximates	Fatty acids, free	10.5	% oleic acid	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Animal by-products, unspecified	Greaves		Proximates	Fatty acids, long free chain	23	g/kg wet waste	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments
Animal by-products, unspecified	Rinds		Proximates	Fatty acids, long free chain	32	g/kg	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments

Wheat	Wheat meal		Proximates	Fatty acids, other	33	g/kg	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Grape	Grape oil		Proximates	Fatty acids, other	19	g/kg	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro

Wheat	Wheat meal		Proximates	Fatty acids, total	968	g/kg	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Grape	Grape oil		Proximates	Fatty acids, total	981	g/kg	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Sugar by-products, unspecified	Wastewater	1h settled	Proximates	Fatty acids, total volatile	1115	as H-Ac	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters

Olive	Olive mill effluent		Proximates	Fatty acids, volatile	6.6	kg m3 as acetic acid	Bioenergy recovery from olive mill effluent in a hybrid reactor
Pork	Piggery effluent		Proximates	Fatty acids, volatile	1.83	kg m3 as acetic acid	Bioenergy recovery from olive mill effluent in a hybrid reactor
Food, unspecified	Food leftovers	Domestic food waste from Ludlow, UK	Proximates	Fatty acids, volatile	3.23	g/L	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment

Food, unspecified	Food leftovers	Autoclaved (160C, 6.2 bars) domestic food waste from Ludlow, UK	Proximates	Fatty acids, volatile	2.25	g/L	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment
Apple	Apple pomace, dried	Powder	Inorganics	Ferrous	230	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Ferrous	543	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Ferrous	511	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Ferrous	501	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder	Inorganics	Ferrous	239.5	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Ferrous	568	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Ferrous	534.5	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Ferrous	520.24	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Cinnamic acid derivatives	Ferulic Acid	0.004	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Cinnamic acid derivatives	Ferulic Acid	0.01	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Fibre, AOAC	Tr	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013

Apple	Apple pomace	Wet	Proximates	Fibre, crude	3.7-7.4	%	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Dried	Proximates	Fibre, crude	15.2-17.9	%	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Powder	Proximates	Fibre, crude	14.7	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Proximates	Fibre, crude	18.3	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Proximates	Fibre, crude	19.2	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Proximates	Fibre, crude	19.2	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Pectin	Wet, apple pulp	Proximates	Fibre, crude	5.8	%	Handbook of poultry feed from waste: processing and use
Rice	Rice bran		Proximates	Fibre, crude	10.4-20.0	%	Bio-processing of agro-byproducts to animal feed

Rice	Rice hull		Proximates	Fibre, crude	14.3-41.4	%	Bio-processing of agro-byproducts to animal feed
Wheat	Wheat bran		Proximates	Fibre, crude	42.8	%	Bio-processing of agro-byproducts to animal feed
Palm	Palm kernel cake		Proximates	Fibre, crude	20.2	%	Bio-processing of agro-byproducts to animal feed
Palm	Palm press fibre		Proximates	Fibre, crude	36.4	%	Bio-processing of agro-byproducts to animal feed
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Fibre, crude	12	%	Wet brewers' grains for beef cattle
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Fibre, crude	15.9-17.1	%	N/A
Carrot	Carrot tops		Proximates	Fibre, crude	17	%	Utilization of fruit and vegetable wastes, FAO

Coconut	Coconut cake		Proximates	Fibre, crude	12	%	Bio-processing of agro-byproducts to animal feed
Pineapple	Pineapple waste		Proximates	Fibre, crude	20.8	%	Bio-processing of agro-byproducts to animal feed
Beef	Rumen content	Abattoir waste	Proximates	Fibre, crude	9.45	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Fibre, crude	9.59	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Fibre, crude	0.55	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Apple	Apple pomace		Proximates	Fibre, crude	138.09	g/kg dry matter	NOSHAN

Orange	Orange peel	Orange	Proximates	Fibre, crude	167.66	g/kg dry matter	NOSHAN
Sugar beet	Sugar beet molasses	From pulp	Proximates	Fibre, crude	125	g/kg dry matter	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Fibre, crude	169	g/kg dry matter	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Fibre, crude	31	g/kg dry matter	Chemical and phsicochemical characterisation of various horse feed ingredients
Hop	Hops		Proximates	Fibre, crude	223.36	g/kg dry matter	NOSHAN

Grape	Grape pomace	Skin and seeds, white grape	Proximates	Fibre, crude	176	g/kg dry matter	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape pomace	Skin and seeds, red grape	Proximates	Fibre, crude	324	g/kg dry matter	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Soy	Soybean meal	Soya bean	Proximates	Fibre, crude	69	g/kg dry matter	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed cake		Proximates	Fibre, crude	102	g/kg dry matter	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed hulls	Purified	Proximates	Fibre, crude	311.5	g/kg dry matter	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Fibre, crude	74	g/kg dry matter	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Fibre, crude	77	g/kg dry matter	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Fibre, crude	135.58	g/kg dry matter	NOSHAN
Grape	Grape pomace		Proximates	Fibre, crude	271.49	g/kg dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Fibre, crude	138.18	g/kg dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Fibre, crude	146.69	g/kg dry matter	NOSHAN

Mushrooms	Mushrooms		Proximates	Fibre, crude	152.86	g/kg dry matter	NOSHAN
Olive	Olive pomace		Proximates	Fibre, crude	219.99	g/kg dry matter	NOSHAN
Onion	Onion hulls		Proximates	Fibre, crude	135.41	g/kg dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Fibre, crude	244.03	g/kg dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Fibre, crude	31.95	g/kg dry matter	NOSHAN
Potato	Potato skin		Proximates	Fibre, crude	39.26	g/kg dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Fibre, crude	104.91	g/kg dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Fibre, crude	190.39	g/kg dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Fibre, crude	180.72	g/kg dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Fibre, crude	401.75	g/kg dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Fibre, crude	54.76	g/kg dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Fibre, crude	101.61	g/kg dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Fibre, crude	79.55	g/kg dry matter	NOSHAN

Distillers grain	Distillers grain	Corn, with solubles	Proximates	Fibre, crude	77	g/kg dry matter	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Fibre, crude	67	g/kg dry matter	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Fibre, crude	62	g/kg dry matter	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Fibre, crude	185.2	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Fibre, crude	194.5	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Fibre, crude	162.8	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Fibre, crude	179.9	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Fibre, crude	187.6	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Fibre, crude	191.2	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Fibre, crude	193.5	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Fibre, crude	187	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Fibre, crude	171.7	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Fibre, crude	161.5	g/kg dry matter	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Barley	Barley		Proximates	Fibre, crude	61	g/kg dry matter	Wet barley distillers solids as a protein source for growing pigs
Soy	Soybean meal	Soyabean meal	Proximates	Fibre, crude	70	g/kg dry matter	Wet barley distillers solids as a protein source for growing pigs

Distillery by-products, unspecified	Distillers solids		Proximates	Fibre, crude	19	g/kg dry matter	Wet barley distillers solids as a protein source for growing pigs
Nuts, unspecified	Nut meal	Babacu	Proximates	Fibre, crude	259	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Proximates	Fibre, crude	62	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cassava	Cassava meal		Proximates	Fibre, crude	134	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Proximates	Fibre, crude	126	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Proximates	Fibre, crude	9	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cotton	Cottonseed meal	solv	Proximates	Fibre, crude	119	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Proximates	Fibre, crude	9	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Proximates	Fibre, crude	11	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Rice	Rice bran	Defatted	Proximates	Fibre, crude	98	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Proximates	Fibre, crude	65	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Proximates	Fibre, crude	104	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Wheat	Wheat bran		Proximates	Fibre, crude	96	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Canola	Juncea canola meal		Proximates	Fibre, crude	73.6	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Apple	Apple pomace, dried	Dried	Proximates	Fibre, crude	18	% d.b.	2012FeedComp
Apple	Apple pomace, dried	Powder	Proximates	Fibre, crude	15.3	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Proximates	Fibre, crude	19.16	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Proximates	Fibre, crude	20.08	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Proximates	Fibre, crude	19.33	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Citrus, unspecified	Citrus pulp, dried		Proximates	Fibre, crude	13	% DM	2012FeedComp
Cranberry	Cranberry pulp meal		Proximates	Fibre, crude	26	% d.b.	2012FeedComp

Orange	Orange pulp, dried	Orange, dried	Proximates	Fibre, crude	9	% d.b.	2012FeedComp
Grapefruit	Grapefruit pulp silage	Grapefruit. Source: Israel	Proximates	Fibre, crude	13	% d.b.	Citrus by-products for animal feed
Orange	Orange pulp silage	Source: Israel	Proximates	Fibre, crude	14.3	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus pulp, dried	Source: Trinidad	Proximates	Fibre, crude	13.1	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus pulp, dried	Source: United States	Proximates	Fibre, crude	11.4	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus molasses	Source: United States	Proximates	Fibre, crude	0	% d.b.	Citrus by-products for animal feed
Citrus, unspecified	Citrus seed meal	Source: United States	Proximates	Fibre, crude	8.8	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus molasses		Proximates	Fibre, crude	0	% d.b.	2012FeedComp
Tomatoes	Tomato pomace, dried	Dried	Proximates	Fibre, crude	26	% d.b.	2012FeedComp
Rice	Rice hull		Proximates	Fibre, crude	44	% d.b.	2012FeedComp
Rice	Rice mill byproduct		Proximates	Fibre, crude	32	% d.b.	2012FeedComp

Poultry	Feather meal	Hydrolyzed	Proximates	Fibre, crude	1	% d.b.	2012FeedComp
Barley	Barley grain screenings		Proximates	Fibre, crude	9	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Fibre, crude	13	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Proximates	Fibre, crude	3	% d.b.	2012FeedComp
Grape	Grape pomace	Stemless	Proximates	Fibre, crude	32	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Wet	Proximates	Fibre, crude	8	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Proximates	Fibre, crude	13	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Proximates	Fibre, crude	12	% d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Almond	Proximates	Fibre, crude	16	% d.b.	2012FeedComp
Apple	Apple		Proximates	Fibre, crude	7	% DM	2012FeedComp
Apple	Apple pomace	Wet	Proximates	Fibre, crude	18	% d.b.	2012FeedComp
Banana	Banana		Proximates	Fibre, crude	4	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Proximates	Fibre, crude	20	% d.b.	2012FeedComp

Sugar beet	Sugar beet pulp, dried	Dried	Proximates	Fibre, crude	21	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Proximates	Fibre, crude	16	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Proximates	Fibre, crude	17	% d.b.	2012FeedComp
Sugar beet	Sugar beet root		Proximates	Fibre, crude	5	% d.b.	2012FeedComp
Sugar beet	Sugar beet tops		Proximates	Fibre, crude	11	% d.b.	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Proximates	Fibre, crude	12	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Proximates	Fibre, crude	1	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Proximates	Fibre, crude	1	% d.b.	2012FeedComp
Bread	Bread by product		Proximates	Fibre, crude	1	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	Fibre, crude	14	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Proximates	Fibre, crude	3	% d.b.	2012FeedComp
Butter	Buttermilk, dried		Proximates	Fibre, crude	5	% d.b.	2012FeedComp

Bread	Calcium carbonate		Proximates	Fibre, crude	0	% d.b.	2012FeedComp
Carrot	Carrot pulp		Proximates	Fibre, crude	19	% d.b.	2012FeedComp
Carrot	Carrot	Roots, fresh	Proximates	Fibre, crude	9	% d.b.	2012FeedComp
Carrot	Carrot tops		Proximates	Fibre, crude	18	% d.b.	2012FeedComp
Beef	Cattle manure, dried	Dried	Proximates	Fibre, crude	35	% d.b.	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Proximates	Fibre, crude	13	% d.b.	2012FeedComp
Coffee	Coffee grounds		Proximates	Fibre, crude	41	% d.b.	2012FeedComp
Cotton	Cottonseed hulls		Proximates	Fibre, crude	48	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Proximates	Fibre, crude	13	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Proximates	Fibre, crude	13	% d.b.	2012FeedComp
Crab	Crab waste meal		Proximates	Fibre, crude	11	% d.b.	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Proximates	Fibre, crude	25	% d.b.	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Proximates	Fibre, crude	24	% d.b.	2012FeedComp
Crawfish	Crawfish waste meal		Proximates	Fibre, crude	12	% d.b.	2012FeedComp

Distillers grain	Distillers grain	Barley	Proximates	Fibre, crude	16	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Proximates	Fibre, crude	8	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Proximates	Fibre, crude	8	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Proximates	Fibre, crude	8	% d.b.	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Proximates	Fibre, crude	4	% d.b.	2012FeedComp
Distillers grain	Distillers corn stillage		Proximates	Fibre, crude	8	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Proximates	Fibre, crude	13	% d.b.	2012FeedComp
Fish, unspecified	Fish meal		Proximates	Fibre, crude	1	% d.b.	2012FeedComp
Flax/linseed	Flax seed hulls		Proximates	Fibre, crude	32	% d.b.	2012FeedComp
Hop	Hop leaves		Proximates	Fibre, crude	15	% d.b.	2012FeedComp
Hop	Hop vine silage		Proximates	Fibre, crude	21	% d.b.	2012FeedComp
Hop	Hops	Spent	Proximates	Fibre, crude	26	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Proximates	Fibre, crude	10	% d.b.	2012FeedComp

Flax/linseed	Linseed meal	Mech.Ext	Proximates	Fibre, crude	10	% d.b.	2012FeedComp
Poultry	Meat meal	Swine/poultry	Proximates	Fibre, crude	2	% d.b.	2012FeedComp
Sugar beet	Sugar beet molasses		Proximates	Fibre, crude	0	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses		Proximates	Fibre, crude	0	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Proximates	Fibre, crude	2	% d.b.	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Proximates	Fibre, crude	0	% d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Proximates	Fibre, crude	63	% d.b.	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Proximates	Fibre, crude	9	% d.b.	2012FeedComp
Nuts, unspecified	Nut skins	Peanut	Proximates	Fibre, crude	13	% d.b.	2012FeedComp
Pineapple	Pineapple greenchop		Proximates	Fibre, crude	24	% d.b.	2012FeedComp
Pineapple	Pineapple bran		Proximates	Fibre, crude	20	% d.b.	2012FeedComp
Pineapple	Pineapple presscake		Proximates	Fibre, crude	24	% d.b.	2012FeedComp
Potato	Potato vine silage		Proximates	Fibre, crude	26	% d.b.	2012FeedComp

Potato	Potato	Cull	Proximates	Fibre, crude	2	% d.b.	2012FeedComp
Potato	Potato waste	Wet	Proximates	Fibre, crude	9	% d.b.	2012FeedComp
Potato	Potato waste, dried	Dried	Proximates	Fibre, crude	7	% d.b.	2012FeedComp
Potato	Potato waste	Wet with lime	Proximates	Fibre, crude	10	% d.b.	2012FeedComp
Potato	Potato waste	Filter cake	Proximates	Fibre, crude	2	% d.b.	2012FeedComp
Poultry	Poultry by product meal		Proximates	Fibre, crude	2	% d.b.	2012FeedComp
Poultry	Poultry manure, dried	Dried	Proximates	Fibre, crude	13	% d.b.	2012FeedComp
Rice	Rice straw		Proximates	Fibre, crude	38	% d.b.	2012FeedComp
Rice	Rice straw	Ammoniated	Proximates	Fibre, crude	39	% d.b.	2012FeedComp
Rice	Rice grain		Proximates	Fibre, crude	10	% d.b.	2012FeedComp
Rice	Rice polishings		Proximates	Fibre, crude	4	% d.b.	2012FeedComp
Rice	Rice bran		Proximates	Fibre, crude	13	% d.b.	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Proximates	Fibre, crude	33	% d.b.	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Proximates	Fibre, crude	11	% d.b.	2012FeedComp

Safflower	Safflower hulls		Proximates	Fibre, crude	58	% d.b.	2012FeedComp
Shrimp	Shrimp waste meal		Proximates	Fibre, crude	11	% d.b.	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Proximates	Fibre, crude	18	% d.b.	2012FeedComp
Sunflower	Sunflower meal	With hulls	Proximates	Fibre, crude	27	% d.b.	2012FeedComp
Sunflower	Sunflower seed hulls		Proximates	Fibre, crude	52	% d.b.	2012FeedComp
Sugar cane	Sugar cane bagasse		Proximates	Fibre, crude	49	% d.b.	2012FeedComp
Tomatoes	Tomato		Proximates	Fibre, crude	9	% d.b.	2012FeedComp
Wheat	Wheat	Fresh, pasture	Proximates	Fibre, crude	18	% d.b.	2012FeedComp
Wheat	Wheat hay		Proximates	Fibre, crude	29	% d.b.	2012FeedComp
Wheat	Wheat silage		Proximates	Fibre, crude	28	% d.b.	2012FeedComp
Wheat	Wheat straw		Proximates	Fibre, crude	43	% d.b.	2012FeedComp
Wheat	Wheat straw	Ammoniated	Proximates	Fibre, crude	40	% d.b.	2012FeedComp
Wheat	Wheat grain		Proximates	Fibre, crude	3	% d.b.	2012FeedComp
Wheat	Wheat grain	Hard	Proximates	Fibre, crude	3	% d.b.	2012FeedComp

Wheat	Wheat grain	Soft	Proximates	Fibre, crude	3	% d.b.	2012FeedComp
Wheat	Wheat grain	Steam flaked	Proximates	Fibre, crude	3	% d.b.	2012FeedComp
Wheat	Wheat grain	Sprouted	Proximates	Fibre, crude	3	% d.b.	2012FeedComp
Wheat	Wheat bran		Proximates	Fibre, crude	11	% d.b.	2012FeedComp
Wheat	Wheat middlings		Proximates	Fibre, crude	8	% d.b.	2012FeedComp
Wheat	Wheat mill run		Proximates	Fibre, crude	9	% d.b.	2012FeedComp
Wheat	Wheat shorts		Proximates	Fibre, crude	8	% d.b.	2012FeedComp
Cheese	Whey, dried	Dried	Proximates	Fibre, crude	0	% d.b.	2012FeedComp
Bakery	Bakery product, dried	Dried	Proximates	Fibre, crude	3	% d.b.	2012FeedComp
Canola	Canola meal	Solv. Ext.	Proximates	Fibre, crude	11	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole	Proximates	Fibre, crude	27	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Proximates	Fibre, crude	19	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Proximates	Fibre, crude	32	% d.b.	2012FeedComp
Grain, unspecified	Grain screenings		Proximates	Fibre, crude	14	% d.b.	2012FeedComp

Grain, unspecified	Grain dust		Proximates	Fibre, crude	11	% d.b.	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Proximates	Fibre, crude	1	% d.b.	2012FeedComp
Milk	Milk, dried	Dry, skim	Proximates	Fibre, crude	0	% d.b.	2012FeedComp
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Fibre, crude	1.16	% d.b.	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Fibre, crude	0.94	% d.b.	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Fibre, crude	0.81	% d.b.	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Rice	Rice hay		Proximates	Fibre, crude	32	% d.b.	Feedipedia
Rice	Rice straw		Proximates	Fibre, crude	35.1	% d.b.	Feedipedia
Rice	Rice straw	Urea-treated	Proximates	Fibre, crude	34.2	% d.b.	Feedipedia
Rice	Rice straw	NaOH-treated	Proximates	Fibre, crude	36.2	% d.b.	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Fibre, crude	34	% d.b.	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Fibre, crude	24	% d.b.	Feedipedia
Sugar cane	Sugar cane leaves	Fresh	Proximates	Fibre, crude	33.7	% d.b.	Feedipedia
Sugar cane	Sugar cane leaves, dried	Dry	Proximates	Fibre, crude	37.8	% d.b.	Feedipedia
Wheat	Triticale grain		Proximates	Fibre, crude	2.7	% d.b.	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Fibre, crude	29.2	% d.b.	Feedipedia
Wheat	Triticale straw		Proximates	Fibre, crude	3.2	% d.b.	Feedipedia
Wheat	Wheat hay		Proximates	Fibre, crude	35.1	% d.b.	Feedipedia
Wheat	Wheat straw		Proximates	Fibre, crude	41.5	% d.b.	Feedipedia

Wheat	Wheat forage	Fresh	Proximates	Fibre, crude	28	% d.b.	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Fibre, crude	38.9	% d.b.	Feedipedia
Palm	Oil palm fronds	Silage	Proximates	Fibre, crude	33.5	% d.b.	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Fibre, crude	33.2	% d.b.	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Fibre, crude	17.6	% d.b.	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Fibre, crude	11.6	% d.b.	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Fibre, crude	13.8	% d.b.	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Fibre, crude	0.2	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Fibre, crude	15.8	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Fibre, crude	16.4	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Fibre, crude	16	% d.b.	Feedipedia
Rice	Rice grain	Polished	Proximates	Fibre, crude	0.4	% d.b.	Feedipedia
Rice	Rice grain	Polished, parboiled	Proximates	Fibre, crude	0.2	% d.b.	Feedipedia

Rice	Rice grain	Brown	Proximates	Fibre, crude	2	% d.b.	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Fibre, crude	13.5	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Fibre, crude	7.9	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Fibre, crude	7.5	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Fibre, crude	8.3	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Fibre, crude	8.2	% d.b.	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Fibre, crude	4.1	% d.b.	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Fibre, crude	8.6	% d.b.	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Fibre, crude	16.3	% d.b.	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Fibre, crude	28.3	% d.b.	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Fibre, crude	9.8	% d.b.	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Fibre, crude	14.8	% d.b.	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Fibre, crude	30.8	% d.b.	Feedipedia
Rice	Rice hull		Proximates	Fibre, crude	42.6	% d.b.	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Fibre, crude	11.1	% d.b.	Feedipedia

Sorghum	Sorghum bran and milling offal		Proximates	Fibre, crude	6.4	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Fibre, crude	8.2	% d.b.	Feedipedia
Sorghum	Malted sorghum sprouts		Proximates	Fibre, crude	14	% d.b.	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Fibre, crude	8.1	% d.b.	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Fibre, crude	8	% d.b.	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Fibre, crude	5.4	% d.b.	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Fibre, crude	8.9	% d.b.	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Fibre, crude	2.8	% d.b.	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Fibre, crude	3.7	% d.b.	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Fibre, crude	2.2	% d.b.	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Fibre, crude	3.1	% d.b.	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Fibre, crude	2.9	% d.b.	Feedipedia
Wheat	Wheat starch		Proximates	Fibre, crude	0.7	% d.b.	Feedipedia
Wheat	Wheat bran		Proximates	Fibre, crude	10.4	% d.b.	Feedipedia

Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Fibre, crude	7.7	% d.b.	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Fibre, crude	5.7	% d.b.	Feedipedia
Wheat	Wheat germs		Proximates	Fibre, crude	4	% d.b.	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Proximates	Fibre, crude	15.2	% d.b.	Feedipedia
Wheat	Wheat grain		Proximates	Fibre, crude	2.6	% d.b.	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Fibre, crude	3	% d.b.	Feedipedia
Wheat	Wheat screenings		Proximates	Fibre, crude	4.4	% d.b.	Feedipedia
Nuts, unspecified	Nut kernels	Almond	Proximates	Fibre, crude	2.5	% d.b.	Feedipedia
Nuts, unspecified	Nut oil meal	Almond, dehulled, mechanical extraction	Proximates	Fibre, crude	23.5	% d.b.	Feedipedia
Nuts, unspecified	Nut oil meal	Almond, with hulls, mechanical extraction	Proximates	Fibre, crude	4.2	% d.b.	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Proximates	Fibre, crude	5.9	% d.b.	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Proximates	Fibre, crude	6.7	% d.b.	Feedipedia

Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Proximates	Fibre, crude	21.3	% d.b.	Feedipedia
Argan	Argan oil cake	Solvent-extracted, Argania spinosa	Proximates	Fibre, crude	5.7	% d.b.	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Fibre, crude	3.7	% d.b.	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Proximates	Fibre, crude	0.9	% d.b.	Feedipedia
Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Fibre, crude	11.7	% d.b.	Feedipedia
Castor	Castor hulls	Ricinus communis	Proximates	Fibre, crude	31.3	% d.b.	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Fibre, crude	32.3	% d.b.	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Fibre, crude	20.7	% d.b.	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Fibre, crude	15.4	% d.b.	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Fibre, crude	29.3	% d.b.	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Fibre, crude	14.2	% d.b.	Feedipedia

Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Fibre, crude	16.8	% d.b.	Feedipedia
Coconut	Coconut copra	Fresh	Proximates	Fibre, crude	3.7	% d.b.	Feedipedia
Coconut	Coconut coir dust		Proximates	Fibre, crude	34.2	% d.b.	Feedipedia
Coconut	Coconut water		Proximates	Fibre, crude	6.5	% d.b.	Feedipedia
Cotton	Cotton straw		Proximates	Fibre, crude	55.4	% d.b.	Feedipedia
Cotton	Cotton leaves	Fresh	Proximates	Fibre, crude	9.5	% d.b.	Feedipedia
Cotton	Cottonseed hulls		Proximates	Fibre, crude	53	% d.b.	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Fibre, crude	12.9	% d.b.	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Fibre, crude	10.6	% d.b.	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Fibre, crude	17.5	% d.b.	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Fibre, crude	19.7	% d.b.	Feedipedia
Flax/linseed	Flax straw		Proximates	Fibre, crude	51.6	% d.b.	Feedipedia
Flax/linseed	Flax chaff		Proximates	Fibre, crude	38.3	% d.b.	Feedipedia
Flax/linseed	Flax shives		Proximates	Fibre, crude	58.6	% d.b.	Feedipedia
Flax/linseed	Flax hay		Proximates	Fibre, crude	38.1	% d.b.	Feedipedia
Grape	Grape seeds		Proximates	Fibre, crude	42.5	% d.b.	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Fibre, crude	49.2	% d.b.	Feedipedia

Grape	Grape seed oil meal	Oil >5%	Proximates	Fibre, crude	34.4	% d.b.	Feedipedia
Flax/linseed	Linseed meal		Proximates	Fibre, crude	10.5	% d.b.	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Fibre, crude	11.6	% d.b.	Feedipedia
Flax/linseed	Linseeds		Proximates	Fibre, crude	10.4	% d.b.	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Fibre, crude	10.4	% d.b.	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Fibre, crude	10.2	% d.b.	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Fibre, crude	6.2	% d.b.	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Fibre, crude	7.6	% d.b.	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Fibre, crude	5.9	% d.b.	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Fibre, crude	10	% d.b.	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Fibre, crude	18.2	% d.b.	Feedipedia
Mustard	Mustard seeds	Brassica sp.	Proximates	Fibre, crude	8.6	% d.b.	Feedipedia
Palm	Oil palm kernels		Proximates	Fibre, crude	14.3	% d.b.	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Fibre, crude	38.1	% d.b.	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Fibre, crude	29	% d.b.	Feedipedia

Olive	Olive oil cake	Exhausted, with stones	Proximates	Fibre, crude	37.7	% d.b.	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Proximates	Fibre, crude	26.5	% d.b.	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Fibre, crude	21.1	% d.b.	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Fibre, crude	22.3	% d.b.	Feedipedia
Olive	Olive pits	Exhausted	Proximates	Fibre, crude	74.1	% d.b.	Feedipedia
Olive	Olive kernels	Exhausted	Proximates	Fibre, crude	15.5	% d.b.	Feedipedia
Olive	Olive oil vegetation water		Proximates	Fibre, crude	0.1	% d.b.	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Fibre, crude	19.8	% d.b.	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Fibre, crude	20.2	% d.b.	Feedipedia
Palm	Palm oil mill effluent	Decanted	Proximates	Fibre, crude	7.9	% d.b.	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Fibre, crude	18.6	% d.b.	Feedipedia
Palm	Palm press fibre	High oil	Proximates	Fibre, crude	31	% d.b.	Feedipedia
Palm	Palm press fibre	Low oil	Proximates	Fibre, crude	41.4	% d.b.	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Fibre, crude	33.7	% d.b.	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Fibre, crude	22.2	% d.b.	Feedipedia

Nuts, unspecified	Nut hulls	Peanut	Proximates	Fibre, crude	65.9	% d.b.	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Fibre, crude	7.1	% d.b.	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Fibre, crude	13.5	% d.b.	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Fibre, crude	7	% d.b.	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Fibre, crude	4.4	% d.b.	Feedipedia
Peanuts	Peanuts, with shells	With shells	Proximates	Fibre, crude	26.5	% d.b.	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Fibre, crude	23.2	% d.b.	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Fibre, crude	16.7	% d.b.	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Fibre, crude	19.2	% d.b.	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Fibre, crude	11.4	% d.b.	Feedipedia
Pumpkin	Pumpkin crop by-product	Fresh, Cucurbita sp.	Proximates	Fibre, crude	19.1	% d.b.	Feedipedia

Pumpkin	Pumpkin hulls	Cucurbita sp.	Proximates	Fibre, crude	72	% d.b.	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Fibre, crude	34	% d.b.	Feedipedia
Pumpkin	Pumpkin oil meal	Mechanical extraction, Cucurbita sp.	Proximates	Fibre, crude	5.7	% d.b.	Feedipedia
Rape	Rape forage	Fresh	Proximates	Fibre, crude	15	% d.b.	Feedipedia
Rape	Rape forage	Silage	Proximates	Fibre, crude	16.4	% d.b.	Feedipedia
Rape	Rape forage, dried	Dehydrated	Proximates	Fibre, crude	19	% d.b.	Feedipedia
Rape	Rape straw		Proximates	Fibre, crude	48.2	% d.b.	Feedipedia
Rape	Rapeseed hulls		Proximates	Fibre, crude	24.1	% d.b.	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Fibre, crude	14.1	% d.b.	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Fibre, crude	13.2	% d.b.	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Fibre, crude	12.8	% d.b.	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Fibre, crude	10.1	% d.b.	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Fibre, crude	61.6	% d.b.	Feedipedia

Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Fibre, crude	33.3	% d.b.	Feedipedia
Safflower	Safflower meal	Without hulls, expeller extraction. Carthamus tinctorius	Proximates	Fibre, crude	14	% d.b.	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Fibre, crude	31.1	% d.b.	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Fibre, crude	7.3	% d.b.	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Fibre, crude	10.1	% d.b.	Feedipedia
Sesame	Sesame seeds	Whole	Proximates	Fibre, crude	8.9	% d.b.	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Fibre, crude	31.2	% d.b.	Feedipedia
Soy	Soybean hay		Proximates	Fibre, crude	33.8	% d.b.	Feedipedia
Soy	Soybean straw		Proximates	Fibre, crude	44.2	% d.b.	Feedipedia
Soy	Soybean hulls		Proximates	Fibre, crude	38.9	% d.b.	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Fibre, crude	6.7	% d.b.	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Fibre, crude	4.9	% d.b.	Feedipedia

Soy	Soybean meal	High oil (expeller)	Proximates	Fibre, crude	4.9	% d.b.	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Fibre, crude	6.2	% d.b.	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Fibre, crude	3.7	% d.b.	Feedipedia
Soy	Soybeans	Toasted	Proximates	Fibre, crude	6.5	% d.b.	Feedipedia
Soy	Soybeans	Extruded	Proximates	Fibre, crude	6.1	% d.b.	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Fibre, crude	25	% d.b.	Feedipedia
Sunflower	Sunflower forage	Silage	Proximates	Fibre, crude	24.6	% d.b.	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Proximates	Fibre, crude	48.1	% d.b.	Feedipedia
Sunflower	Sunflower heads	Without seeds	Proximates	Fibre, crude	19.9	% d.b.	Feedipedia
Sunflower	Sunflower stalks		Proximates	Fibre, crude	37.8	% d.b.	Feedipedia
Sunflower	Sunflower hulls		Proximates	Fibre, crude	50.8	% d.b.	Feedipedia
Sunflower	Sunflower screenings		Proximates	Fibre, crude	42.2	% d.b.	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Fibre, crude	27.9	% d.b.	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Fibre, crude	22.8	% d.b.	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Fibre, crude	29.1	% d.b.	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Fibre, crude	26.2	% d.b.	Feedipedia
Sunflower	Sunflower seeds		Proximates	Fibre, crude	17.2	% d.b.	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Fibre, crude	28.3	% d.b.	Feedipedia
Nuts, unspecified	Nut hulls	Walnut (Juglans regia)	Proximates	Fibre, crude	61.3	% d.b.	Feedipedia
Nuts, unspecified	Nut kernels	Walnut (Juglans regia)	Proximates	Fibre, crude	9.2	% d.b.	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Fibre, crude	4	% d.b.	Feedipedia

Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Proximates	Fibre, crude	6	% d.b.	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, high fibre	Proximates	Fibre, crude	30.9	% d.b.	Feedipedia
Melon	Watermelon, hulls	Citrullus lanatus	Proximates	Fibre, crude	61.4	% d.b.	Feedipedia
Melon	Watermelon, seeds	Decorticated. Citrullus lanatus	Proximates	Fibre, crude	8.2	% d.b.	Feedipedia
Melon	Watermelon, seeds	Whole. Citrullus lanatus	Proximates	Fibre, crude	31.6	% d.b.	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Fibre, crude	36	% d.b.	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Fibre, crude	20.7	% d.b.	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Fibre, crude	5.5	% DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Fibre, crude	4.6	% d.b.	Feedipedia
Banana	Banana fruits, ensiled	Mature, ensiled	Proximates	Fibre, crude	6.1	% d.b.	Feedipedia

Banana	Banana fruits	Mature, without peel, fresh	Proximates	Fibre, crude	0.1	% d.b.	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Fibre, crude	3.8	% d.b.	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Proximates	Fibre, crude	3.9	% d.b.	Feedipedia
Banana	Banana fruits, ensiled	Immature, ensiled	Proximates	Fibre, crude	4.4	% d.b.	Feedipedia
Banana	Banana fruits	Immature, without peel, fresh	Proximates	Fibre, crude	1.3	% d.b.	Feedipedia
Banana	Banana fruits, dried	Immature, without peel, dehydrated	Proximates	Fibre, crude	2	% d.b.	Feedipedia
Plantain	Plantain banana fruits	Fresh	Proximates	Fibre, crude	1.1	% d.b.	Feedipedia
Plantain	Plantain banana fruits, dried	Dehydrated	Proximates	Fibre, crude	2.1	% d.b.	Feedipedia
Plantain	Plantain banana fruits	Without peel, cooked	Proximates	Fibre, crude	0.5	% d.b.	Feedipedia
Banana	Banana flour		Proximates	Fibre, crude	3.7	% d.b.	Feedipedia
Banana	Banana shoots	Fresh	Proximates	Fibre, crude	48.2	% d.b.	Feedipedia
Plantain	Plantain banana trunk	Fresh	Proximates	Fibre, crude	23.7	% d.b.	Feedipedia

Banana	Banana leaves, dried	Dehydrated	Proximates	Fibre, crude	27.9	% d.b.	Feedipedia
Banana	Banana stalks	Fresh	Proximates	Fibre, crude	28.9	% d.b.	Feedipedia
Banana	Banana	Aerial part, fresh	Proximates	Fibre, crude	26.1	% d.b.	Feedipedia
Plantain	Plantain banana shoots	Fresh	Proximates	Fibre, crude	47.2	% d.b.	Feedipedia
Plantain	Plantain banana leaves	Fresh	Proximates	Fibre, crude	28.6	% d.b.	Feedipedia
Banana	Banana peel	Mature, fresh	Proximates	Fibre, crude	9.9	% d.b.	Feedipedia
Banana	Banana peel	Immature, fresh	Proximates	Fibre, crude	15	% d.b.	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Proximates	Fibre, crude	8.7	% d.b.	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Proximates	Fibre, crude	7.4	% d.b.	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Fibre, crude	2.9	% d.b.	Feedipedia
Citrus, unspecified	Citrus, dried	Fruits, dried	Proximates	Fibre, crude	11.4	% d.b.	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Fibre, crude	9.4	% DM	Feedipedia
Lime	Lime	Fruits (Citrus aurantiifolia)	Proximates	Fibre, crude	42.3	% d.b.	Feedipedia
Grapefruit	Grapefruit	Fruits (Citrus paradisi), fresh	Proximates	Fibre, crude	8.7	% d.b.	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Fibre, crude	19.9	% d.b.	Feedipedia

Citrus, unspecified	Citrus molasses		Proximates	Fibre, crude	0	% d.b.	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Fibre, crude	13.5	% DM	Feedipedia
Orange	Orange pulp, dried	Orange, dried	Proximates	Fibre, crude	12.9	% d.b.	Feedipedia
Orange	Orange pulp, dried	Mandarin, dried	Proximates	Fibre, crude	13.3	% d.b.	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Fibre, crude	12.2	% d.b.	Feedipedia
Orange	Orange pulp	Orange, fresh	Proximates	Fibre, crude	10.4	% d.b.	Feedipedia
Grapefruit	Grapefruit pulp	Grapefruit, fresh	Proximates	Fibre, crude	10.5	% d.b.	Feedipedia
Orange	Orange pulp	Clementine, fresh	Proximates	Fibre, crude	7.4	% d.b.	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Fibre, crude	10	% d.b.	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Fibre, crude	10.9	% DM	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Fibre, crude	6.2	% d.b.	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Fibre, crude	14.3	% d.b.	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Fibre, crude	10.6	% d.b.	Feedipedia
Grapefruit	Grapefruit peel silage	Grapefruit	Proximates	Fibre, crude	13	% d.b.	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Fibre, crude	16.9	% d.b.	Feedipedia

Lime	Lime peel silage	Lime	Proximates	Fibre, crude	21	% d.b.	Feedipedia
Citrus, unspecified	Citrus seed meal		Proximates	Fibre, crude	8.6	% d.b.	Feedipedia
Lime	Lime seeds	Lime (Citrus aurantiifolia)	Proximates	Fibre, crude	13.2	% d.b.	Feedipedia
Coffee	Coffee hulls		Proximates	Fibre, crude	36	% d.b.	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Fibre, crude	18.5	% d.b.	Feedipedia
Coffee	Coffee parchment		Proximates	Fibre, crude	69.2	% d.b.	Feedipedia
Coffee	Instant coffee by product		Proximates	Fibre, crude	43.6	% d.b.	Feedipedia
Coffee	Coffee leaves		Proximates	Fibre, crude	18.7	% d.b.	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Fibre, crude	6.1	% d.b.	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Fibre, crude	3.2	% d.b.	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Fibre, crude	7.5	% d.b.	Feedipedia
Date	Date palm leaves	Fresh	Proximates	Fibre, crude	38.5	% d.b.	Feedipedia
Date	Date palm leaves, dried	Dry	Proximates	Fibre, crude	31.9	% d.b.	Feedipedia

Date	Date palm pedicels		Proximates	Fibre, crude	33	% d.b.	Feedipedia
Date	Date palm flower stems		Proximates	Fibre, crude	49.7	% d.b.	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Fibre, crude	26.1	% d.b.	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Fibre, crude	25.1	% d.b.	Feedipedia
Grape	Grape pomace	Silage	Proximates	Fibre, crude	27.7	% d.b.	Feedipedia
Melon	Melon	Aerial part, fresh. Cucumis melo	Proximates	Fibre, crude	16.9	% d.b.	Feedipedia
Melon	Melon	Fruit, fresh. Cucumis melo	Proximates	Fibre, crude	24.8	% d.b.	Feedipedia
Olive	Olive skins		Proximates	Fibre, crude	28.3	% d.b.	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Fibre, crude	17.8	% d.b.	Feedipedia
Pineapple	Pineapple leaves	Fresh, Ananas comosus	Proximates	Fibre, crude	23.6	% d.b.	Feedipedia
Pineapple	Pineapple leaves	Silage, Ananas comosus	Proximates	Fibre, crude	22.8	% d.b.	Feedipedia
Melon	Watermelon	Aerial part, fresh. Citrullus lanatus	Proximates	Fibre, crude	17.1	% d.b.	Feedipedia

Melon	Watermelon	Fruit, fresh. Citrullus lanatus	Proximates	Fibre, crude	26.8	% d.b.	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Fibre, crude	0.1	% d.b.	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Fibre, crude	10	% d.b.	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Fibre, crude	9.3	% d.b.	Feedipedia
Carrot	Carrot tops	Fresh	Proximates	Fibre, crude	16.7	% d.b.	Feedipedia
Potato	Potato leaves, dried	Dried	Proximates	Fibre, crude	39.1	% d.b.	Feedipedia
Potato	Potato aerial part	Fresh	Proximates	Fibre, crude	27	% d.b.	Feedipedia
Potato	Potato peel	Fresh	Proximates	Fibre, crude	3.3	% d.b.	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Fibre, crude	2.5	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Fibre, crude	19.9	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Fibre, crude	19.4	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Fibre, crude	20.8	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Proximates	Fibre, crude	21.4	% d.b.	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Fibre, crude	8.1	% d.b.	Feedipedia

Sugar beet	Sugar beet tops	Fresh	Proximates	Fibre, crude	10.9	% d.b.	Feedipedia
Sugar beet	Sugar beet leaves and tops	Fresh	Proximates	Fibre, crude	15.5	% d.b.	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Fibre, crude	12.3	% d.b.	Feedipedia
Sugar beet	Sugar beet tops	Silage	Proximates	Fibre, crude	14.2	% d.b.	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Proximates	Fibre, crude	15.2	% d.b.	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Fibre, crude	21.1	% d.b.	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Fibre, crude	19.9	% d.b.	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Fibre, crude	3.8	% d.b.	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Fibre, crude	2.8	% d.b.	Feedipedia
Sugar	Sugar, feed grade		Proximates	Fibre, crude	0	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Fibre, crude	19.9	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Fibre, crude	45.9	% d.b.	Feedipedia

Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Fibre, crude	46.4	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Urea-treated, dehydrated	Proximates	Fibre, crude	50.9	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse pith		Proximates	Fibre, crude	45.1	% d.b.	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Fibre, crude	0.1	% d.b.	Feedipedia
Sugar cane	Sugar cane, syrup-off		Proximates	Fibre, crude	0	% d.b.	Feedipedia
Sugar cane	Sugar cane mud	Filter press mud	Proximates	Fibre, crude	12.1	% d.b.	Feedipedia
Sugar cane	Sugar cane mud	Rotary-filter mud	Proximates	Fibre, crude	21.4	% d.b.	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Fibre, crude	34	% d.b.	Feedipedia
Sugar cane	Sugar cane tops	Silage	Proximates	Fibre, crude	35	% d.b.	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Fibre, crude	28.9	% d.b.	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Proximates	Fibre, crude	23.7	% d.b.	Feedipedia

Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Fibre, crude	0.6	% d.b.	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Fibre, crude	0	% d.b.	Feedipedia
Lamb	Wool meal	Hydrolysed	Proximates	Fibre, crude	12.2	% d.b.	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Fibre, crude	0.5	% d.b.	Feedipedia
Animal by-products, unspecified	Blood meal	Preserved with acid	Proximates	Fibre, crude	3.7	% d.b.	Feedipedia
Animal by-products, unspecified	Blood	Fresh	Proximates	Fibre, crude	0	% d.b.	Feedipedia
Animal by-products, unspecified	Blood	Chicken, fresh	Proximates	Fibre, crude	0	% d.b.	Feedipedia
Animal by-products, unspecified	Blood	Moist	Proximates	Fibre, crude	2.3	% d.b.	Feedipedia
Animal by-products, unspecified	Bone meal	Calcinated	Proximates	Fibre, crude	0	% d.b.	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Fibre, crude	3	% d.b.	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Fibre, crude	1	% d.b.	Feedipedia

Crab	Crab shells	Ground	Proximates	Fibre, crude	11.3	% d.b.	Feedipedia
Eggs	Eggshells		Proximates	Fibre, crude	0.3	% d.b.	Feedipedia
Poultry	Feather meal		Proximates	Fibre, crude	0.9	% d.b.	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Fibre, crude	2.3	% d.b.	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Fibre, crude	3.8	% d.b.	Feedipedia
Frog	Frog meal	Whole frog	Proximates	Fibre, crude	1.7	% d.b.	Feedipedia
Poultry	Hatchery by product		Proximates	Fibre, crude	2.1	% d.b.	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Fibre, crude	0	% d.b.	Feedipedia
Lamb	Lamb hooves	Raw	Proximates	Fibre, crude	0	% d.b.	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Fibre, crude	0.9	% d.b.	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Fibre, crude	22.4	% d.b.	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Fibre, crude	18.5	% d.b.	Feedipedia
Rabbit	Rabbit manure, dried	Dehydrated	Proximates	Fibre, crude	24	% d.b.	Feedipedia
Poultry	Poultry feet	Chicken, raw	Proximates	Fibre, crude	0	% d.b.	Feedipedia
Poultry	Poultry heads	Chicken, raw	Proximates	Fibre, crude	0	% d.b.	Feedipedia
Poultry	Poultry viscera	Chicken, raw	Proximates	Fibre, crude	0	% d.b.	Feedipedia
Beef	Rumen content	Calves, fresh	Proximates	Fibre, crude	30.3	% d.b.	Feedipedia

Beef	Rumen content	Cattle, fresh	Proximates	Fibre, crude	25.4	% d.b.	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Fibre, crude	21.2	% d.b.	Feedipedia
Beef	Rumen content	Lambs, fresh	Proximates	Fibre, crude	25.5	% d.b.	Feedipedia
Shrimp	Shrimp heads	Fresh	Proximates	Fibre, crude	10.6	% d.b.	Feedipedia
Shrimp	Shrimp heads, dried	Dehydrated	Proximates	Fibre, crude	9.2	% d.b.	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Fibre, crude	3.7	% d.b.	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Fibre, crude	8.5	% d.b.	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Fibre, crude	1.2	% d.b.	Feedipedia
Snail	Snail meal	With shells	Proximates	Fibre, crude	8.8	% d.b.	Feedipedia
Snail	Snail meal	Without shells	Proximates	Fibre, crude	4.3	% d.b.	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Fibre, crude	3.8	% d.b.	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Fibre, crude	3.8	% d.b.	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Fibre, crude	3	% d.b.	Feedipedia
Toad	Toad meal		Proximates	Fibre, crude	3.6	% d.b.	Feedipedia
Whale	Whale meal		Proximates	Fibre, crude	0	% d.b.	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Fibre, crude	1.8	% d.b.	Feedipedia
Bakery	Bakery and viennoiserie by products		Proximates	Fibre, crude	0.8	% DM	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Fibre, crude	2.9	% d.b.	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Fibre, crude	2.1	% d.b.	Feedipedia
Corn	Maize starch		Proximates	Fibre, crude	0.2	% d.b.	Feedipedia
Pea	Pea starch		Proximates	Fibre, crude	1.4	% d.b.	Feedipedia
Apple	Apple pomace, dried		Proximates	Fibre, crude	4.7-48.7	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Potato	Potato peel		Proximates	Fibre, crude	7-9	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals

Potato	Potato peel		Proximates	Fibre, crude	7.8	%	Production of alkaline protease by a thermophilic Bacillus subtilis under solid-state fermentation (SSF) condition using Imperata cylindrica grass and potato peel as low-cost medium: Characterization and application of enzyme in detergent formulation
Potato	Potato peel	A review of different publications	Proximates	Fibre, crude	61.0-125	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production

Potato	Potato pulp	A review of different publications	Proximates	Fibre, crude	205	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	Solid fermented. A review of different publications	Proximates	Fibre, crude	86.0	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp, dried	A review of different publications	Proximates	Fibre, crude	26-77.5	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Sugar beet	Sugar beet molasses	From pulp	Proximates	Fibre, dietary	572	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet pulp		Proximates	Fibre, dietary	728	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Fibre, dietary	150	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Rye	Seed residue		Proximates	Fibre, dietary	555	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Fibre, dietary	730	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Fibre, dietary	589	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Fibre, dietary	873	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Fibre, dietary	612	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Fibre, dietary	737	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Fibre, dietary	128	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Fibre, dietary	217	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato peel	Mature potato peel - potatoes harvested after 20 weeks	Proximates	Fibre, dietary	68.73	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato
Potato	Potato peel	Young potato peel - potatoes harvested after 14 weeks	Proximates	Fibre, dietary	61.04	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato
Hop	Hops		Proximates	Fibre, dietary, insoluble	43.3	g/100g	NOSHAN

Barley	Malted barley germs		Proximates	Fibre, dietary, insoluble	41.8	g/100g	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Fibre, dietary, insoluble	40.7	g/100g	NOSHAN
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Fibre, dietary, insoluble	306	g/kg as is	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Fibre, dietary, insoluble	27.29	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Fibre, dietary, insoluble	16.44	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Fibre, dietary, insoluble	52.4	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Fibre, dietary, insoluble	49.59	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Fibre, dietary, insoluble	54.59	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Potato	Potato peel	Mature potato peel - potatoes harvested after 20 weeks	Proximates	Fibre, dietary, insoluble	58.49	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato
Potato	Potato peel	Young potato peel - potatoes harvested after 14 weeks	Proximates	Fibre, dietary, insoluble	53.08	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato
Hop	Hops		Proximates	Fibre, dietary, soluble	4.6	g/100g	NOSHAN
Barley	Malted barley germs		Proximates	Fibre, dietary, soluble	2.3	g/100g	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Fibre, dietary, soluble	19.1	g/100g	NOSHAN

Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Fibre, dietary, soluble	5	g/kg as is	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Sugar beet	Sugar beet pulp		Proximates	Fibre, dietary, soluble	30	Soluble dietary fiber (% DM)	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Fibre, dietary, soluble	0.72	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Fibre, dietary, soluble	0.84	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Fibre, dietary, soluble	0.81	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Fibre, dietary, soluble	1.51	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Fibre, dietary, soluble	1.72	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Distillers grain	Distillers, corn	FL 4/99	Proximates	Fibre, dietary, soluble	8.9	Soluble dietary fiber (% DM)	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Distillers grain	Distillers, corn	Fl 5/99	Proximates	Fibre, dietary, soluble	7.8	Soluble dietary fiber (% DM)	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Potato	Potato peel	Mature potato peel - potatoes harvested after 20 weeks	Proximates	Fibre, dietary, soluble	10.24	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato
Potato	Potato peel	Young potato peel - potatoes harvested after 14 weeks	Proximates	Fibre, dietary, soluble	7.96	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato
Carrot	Carrot		Proximates	Fibre, insoluble non-starch polysaccharides (I-NSP)	34	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Rye	Seed residue		Proximates	Fibre, insoluble non-starch polysaccharides (I-NSP)	212	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Fibre, insoluble non-starch polysaccharides (I-NSP)	148	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Fibre, insoluble non-starch polysaccharides (I-NSP)	280	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Fruit and vegetables, unspecified	Pectin residue		Proximates	Fibre, insoluble non-starch polysaccharides (I-NSP)	174	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Fibre, insoluble non-starch polysaccharides (I-NSP)	95	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Fibre, insoluble non-starch polysaccharides (I-NSP)	207	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Wheat	Wheat		Proximates	Fibre, insoluble non-starch polysaccharides (I-NSP)	62	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Fibre, insoluble non-starch polysaccharides (I-NSP)	92	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Fibre, neutral dietary	304	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)

Canola	Juncea canola meal		Proximates	Fibre, neutral dietary	198.7	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Fibre, non-starch polysaccharide (NSP)	Tr	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Sugar beet	Sugar beet molasses	From pulp	Proximates	Fibre, non-starch polysaccharide (NSP)	540	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet pulp		Proximates	Fibre, non-starch polysaccharide (NSP)	698	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Fibre, non-starch polysaccharide (NSP)	150	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Canola	Canola meal	Average of analysed values	Proximates	Fibre, non-starch polysaccharide (NSP)	219	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Carrot	Carrot		Proximates	Fibre, non-starch polysaccharide (NSP)	270	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Distillers grain	Distillers grain	Corn, with solubles	Proximates	Fibre, non-starch polysaccharide (NSP)	283	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Fibre, non-starch polysaccharide (NSP)	262	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Fibre, non-starch polysaccharide (NSP)	247	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Rye	Seed residue		Proximates	Fibre, non-starch polysaccharides, total (T-NSP)	430	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Fibre, non-starch polysaccharides, total (T-NSP)	721	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Fibre, non-starch polysaccharides, total (T-NSP)	463	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Fibre, non-starch polysaccharides, total (T-NSP)	743	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Fibre, non-starch polysaccharides, total (T-NSP)	576	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Sugar beet	Sugar beet pulp		Proximates	Fibre, non-starch polysaccharides, total (T-NSP)	700	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Fibre, non-starch polysaccharides, total (T-NSP)	117	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Fibre, non-starch polysaccharides, total (T-NSP)	182	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Citrus, unspecified	Citrus pulp, dried		Proximates	Fibre, soluble	329	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp		Proximates	Fibre, soluble	32.9	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Wheat	Wheat middlings		Proximates	Fibre, soluble	3.4	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Wheat	Wheat	Ground	Proximates	Fibre, soluble	8.8	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Beef	Rumen microbes	Mixed. Isolated from a continuous culture fermentation	Proximates	Fibre, soluble	6.0-8.5	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Nuts, unspecified	Nut hulls	Almond, WH	Proximates	Fibre, soluble	16.9	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Cotton	Cottonseed	Whole	Proximates	Fibre, soluble	8.5	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Cotton	Cottonseed	Whole, FL 5/99	Proximates	Fibre, soluble	10.8	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Cotton	Cottonseed hulls		Proximates	Fibre, soluble	4	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Fibre, soluble	10-40	% DM	Utilization of fruit and vegetable wastes, FAO
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Proximates	Fibre, soluble	1.6	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Proximates	Fibre, soluble	1.5	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Sugar beet	Sugar beet molasses	From pulp	Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	257	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	283	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	82	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	31	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	67	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	65	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Sugar beet	Sugar beet molasses	From pulp	Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	257	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	283	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	82	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Carrot	Carrot		Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	157	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Rye	Seed residue		Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	21	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	121	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	36	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	117	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	280	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	290	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	37	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Fibre, soluble non-starch polysaccharides (S-NSP)	52	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Canola	Canola meal	Average of analysed values	Proximates	Fibre, total	379	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Grape	Grape pomace	Red grapes	Proximates	Fibre, total	30-40	%	Utilization of fruit and vegetable wastes, FAO
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Proximates	Fibre, total	57.1	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Proximates	Fibre, total	58.6	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Fibre, total dietary	28.01	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Fibre, total dietary	17.28	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Fibre, total dietary	53.21	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Fibre, total dietary	51.09	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Fibre, total dietary	56.31	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Fibre, total dietary	312	g/kg as is	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Canola	Juncea canola meal		Proximates	Fibre, total dietary	257	g/kg as is	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Waste compounds	Flash point	180	°C	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Waste compounds	Flash point	164	°C	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Grape	Grape cane	Alphone Lavallee	Flavanols	Flavanols, total	9.37	mg CE/g	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Flavanols	Flavanols, total	9.22	mg CE/g	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Flavanols	Flavanols, total	9.28	mg CE/g	Chemical composition of grape canes
Grape	Grape cane	Hafizali	Flavanols	Flavanols, total	8.82	mg CE/g	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Flavanols	Flavanols, total	9.29	mg CE/g	Chemical composition of grape canes
Grape	Grape cane	Isabella	Flavanols	Flavanols, total	9.18	mg CE/g	Chemical composition of grape canes

Grape	Grape cane	Italia	Flavanols	Flavanols, total	9.25	mg CE/g	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Flavanols	Flavanols, total	9.18	mg CE/g	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Flavanols	Flavanols, total	9.21	mg CE/g	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Flavanols	Flavanols, total	9.09	mg CE/g	Chemical composition of grape canes
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Flavanols	Flavanols, total	49.6	mg CE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Flavanols	Flavanols, total	28	mg CE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Flavanols	Flavanols, total	48.15	mg CE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Flavanols	Flavanols, total	49.1	mg CE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Flavanols	Flavanols, total	37.6	mg CE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape cane	Alphone Lavallee	Flavanols	Flavanols, total	3.26	mg RE/g	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Flavanols	Flavanols, total	1.74	mg RE/g	Chemical composition of grape canes

Grape	Grape cane	Cardinal	Flavanols	Flavanols, total	1.63	mg RE/g	Chemical composition of grape canes
Grape	Grape cane	Hafizali	Flavanols	Flavanols, total	1.39	mg RE/g	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Flavanols	Flavanols, total	2.17	mg RE/g	Chemical composition of grape canes
Grape	Grape cane	Isabella	Flavanols	Flavanols, total	2.39	mg RE/g	Chemical composition of grape canes
Grape	Grape cane	Italia	Flavanols	Flavanols, total	1.81	mg RE/g	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Flavanols	Flavanols, total	2.06	mg RE/g	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Flavanols	Flavanols, total	2.02	mg RE/g	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Flavanols	Flavanols, total	2.37	mg RE/g	Chemical composition of grape canes

Grape	Grape pomace, dried	Air dried	Flavanols	Flavanols, total	4484	ppm dry extract	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Flavanols	Flavanols, total	3836	ppm dry extract	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Flavanols	Flavanols, total	4617	ppm dry extract	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Air dried	Flavonols	Flavonols, glycosylated	3518	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Flavonols	Flavonols, glycosylated	2993	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Flavonols	Flavonols, glycosylated	3504	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Rice	Rice husk		Waste compounds	Flow temperature	>1600	°C	Combustion behaviour of rice husk in a bubbling fluidised bed

Wheat	Wheat straw		Waste compounds	Flow temperature	1400-1500	°C	Combustion behaviour of rice husk in a bubbling fluidised bed
Millet	Millet husk		Waste compounds	Flow temperature	1390	°C	ECN Phyllis 2
Apple	Apple	Whole	Undesirable components	Fludioxonil	0.08	mg/kg	NOSHAN
Pears	Pear	Whole	Undesirable components	Fludioxonil	0.18	mg/kg	NOSHAN
Sugar beet	Sugar beet		Waste compounds	Fluid temperature	1670	°C	ECN Phyllis 2
Aubergine	Aubergine plant		Waste compounds	Fluid temperature	1650	°C	ECN Phyllis 2
Bean	Bean plant		Waste compounds	Fluid temperature	1650	°C	ECN Phyllis 2
Courgette	Courgette plant		Waste compounds	Fluid temperature	1650	°C	ECN Phyllis 2
Cucumber	Cucumber plant		Waste compounds	Fluid temperature	1650	°C	ECN Phyllis 2

Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Waste compounds	Fluid temperature	1650	°C	ECN Phyllis 2
Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Waste compounds	Fluid temperature	1650	°C	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash fusion temperatures according to ASTM D-1857	Waste compounds	Fluid temperature	1350	°C	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Waste compounds	Fluid temperature	1440	°C	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Waste compounds	Fluid temperature	1170	°C	ECN Phyllis 2
Coconut	Coconut fibre dust	Coir. Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Waste compounds	Fluid temperature	1170	°C	ECN Phyllis 2

Olive	Olive	Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Waste compounds	Fluid temperature	1480	°C	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Waste compounds	Fluid temperature	1200	°C	ECN Phyllis 2
Coffee	Coffee husk		Waste compounds	Fluid temperature	1020	°C	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Waste compounds	Fluid temperature	1400	°C	ECN Phyllis 2
Abattoir wastes, unspecified	Abattoir raw effluent		Inorganics	Fluoride	25	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Inorganics	Fluoride	14.9	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Inorganics	Fluoride	11.8	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Inorganics	Fluoride	17.2	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Inorganics	Fluoride	16.8	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Inorganics	Fluoride	4.8	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Inorganics	Fluoride	11.2	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Inorganics	Fluoride	18.6	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Inorganics	Fluoride	0.62	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Inorganics	Fluoride	1.4	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Inorganics	Fluoride	2.9	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Inorganics	Fluoride	3.6	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Fluorine	44.9	mg/kg	ECN Phyllis 2
Straw	Straw		Inorganics	Fluorine	0	mg/kg	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Fluorine	129.9	mg/kg	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Fluorine	169.8	mg/kg	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Fluorine	8.2	mg/kg	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Fluorine	0.9	mg/kg	ECN Phyllis 2

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Folate	1	µg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Lemon	Lemon peel	Fresh	Vitamins	Folic acid	0.269	mg/kg DM	Citrus by-products as ruminant feeds: A review
Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Organic acids	Formic acid	0.45	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Organic acids	Formic acid	0	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Organic acids	Formic acid	0	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Organic acids	Formic acid	0.27	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Grape	Grape pomace	Air dried	Waste compounds	Free radical scavenging activity	2.38	IC50(mg/ml)	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Accelerated air dried	Waste compounds	Free radical scavenging activity	2.66	IC50(mg/ml)	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Waste compounds	Free radical scavenging activity	6.32	IC50(mg/ml)	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Rye	Seed residue		Proximates	Fructan	26	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Fructan	5	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Fructan	1	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Fructan	0	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Fructan	0.1	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Fructan	0	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Fructan	16	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Fructan	7	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Fructose	5.5	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Pineapple	Pineapple waste	Raw	Proximates	Fructose	4-7.5	% DM	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace, dried	Dehydrated	Proximates	Fructose	14.5	% DM	Feedipedia
Hop	Hops		Proximates	Fructose	15	g/kg	NOSHAN
Barley	Malted barley germs		Proximates	Fructose	4.1	g/kg	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Fructose	13.8	g/kg	NOSHAN

Sugar beet	Sugar beet molasses	From pulp	Proximates	Fructose	16	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Fructose	5	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Fructose	1	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Carrot	Carrot		Proximates	Fructose	125	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Orange	Orange pulp, dried		Proximates	Fructose	102	g/kg DM	Citrus by-products as ruminant feeds: A review
Sugar beet	Sugar beet molasses	From pulp	Proximates	Fructose	nd	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Fructose	1	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Fructose	nd	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients

Carrot	Carrot		Proximates	Fructose	nd	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Fructose	1	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet molasses	From pulp	Proximates	Fructose	nd	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Fructose	nd	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients

Carrot	Carrot		Proximates	Fructose	nd	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Chicory	Chicory root	Pulp, Chichorium intybus, Chinese cultivar 'Zhong-Hua No.1'	Proximates	Fructose	21.2	%	Sequential extraction and physicochemical characterization of polysaccharides from chicory (Chichorium intybus) root pulp
Tomatoes	Tomato pomace	Pulper stage of tomato processing for paste	Proximates	Fructose	14.24	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	Finisher stage of tomato processing for paste	Proximates	Fructose	16.65	g/kg	Chemical characterization of tomato pomace

Tomatoes	Tomato pomace	Before turbostage stage of tomato processing for paste	Proximates	Fructose	18.23	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	After turbostage stage of tomato processing for paste	Proximates	Fructose	14.83	g/kg	Chemical characterization of tomato pomace
Mushrooms	Mushrooms		Proximates	Fruti-body specific gene D	4	fragment	NOSHAN
Potato	Potato fibres	Pressed	Proximates	Fucose	100	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Fucose	45	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Buffer insoluble solids		Proximates	Fucose	64	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Proximates	Fucose	12	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Fucose	84	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Fucose	35	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Fucose	93	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Grape	Grape stalks		Proximates	Fucose	<0.2	%	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Potato	Potato fibres	Pressed	Proximates	Fucose	<1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Fucose	<1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Buffer insoluble solids		Proximates	Fucose	<1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Proximates	Fucose	<1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Fucose	<1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Fucose	<1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Fucose	<1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Apple	Apple pomace		Proximates	Fucose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Orange	Orange peel	Orange	Proximates	Fucose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Hop	Hops		Proximates	Fucose	3	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple cake		Proximates	Fucose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Cabbage	Cabbage		Proximates	Fucose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Fucose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Grape	Grape pomace		Proximates	Fucose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Olive	Olive pomace		Proximates	Fucose	20	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Onion	Onion hulls		Proximates	Fucose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Rape	Rapeseed press cake		Proximates	Fucose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Fucose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Fucose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Tomatoes	Tomato skin		Proximates	Fucose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple	Whole	Proximates	Fucose	7	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Pears	Pear	Whole	Proximates	Fucose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Orange	Orange peel	Orange	Proximates	Fucose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Olive	Olive pomace		Proximates	Fucose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Rape	Rapeseed press cake		Proximates	Fucose	9.01	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Apple	Apple	Whole	Proximates	Fucose	3	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Hop	Hops		Proximates	Fucose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Apple	Apple cake		Proximates	Fucose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage		Proximates	Fucose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Fucose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Grape	Grape pomace		Proximates	Fucose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Onion	Onion hulls		Proximates	Fucose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Fucose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Fucose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Tomatoes	Tomato skin		Proximates	Fucose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Pears	Pear	Whole	Proximates	Fucose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Apple	Apple pomace		Proximates	Fucose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Grape	Grape pomace	Deseeded, without stalk. Area of production: Alsace. Red and white grapes (Vitis vinifera)	Proximates	Fuctose	0.17	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Aquitaine. Red and white grapes (Vitis vinifera)	Proximates	Fuctose	0.25	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Beaujolais. Red and white grapes (Vitis vinifera)	Proximates	Fuctose	0.1	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Bourgogne. Red and white grapes (Vitis vinifera)	Proximates	Fuctose	0.16	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Champagne. Red and white grapes (Vitis vinifera)	Proximates	Fuctose	0.11	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Languedoc. Red and white grapes (Vitis vinifera)	Proximates	Fuctose	0.15	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Val de Loire. Red and white grapes (Vitis vinifera)	Proximates	Fuctose	0.08	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Provence. Red and white grapes (Vitis vinifera)	Proximates	Fuctose	0.15	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Fumonisin	<20	µg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Fumonisin	153	µg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Fumonisin	<20	µg/kg	NOSHAN

Sugar by-products, unspecified	Bagasse		Proximates	Galactan	0.7	wt%, dry basis	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Proximates	Galactan	1.1	wt%, dry basis	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Olive	Olive tree pruning	Biomass	Proximates	Galactan	2.6	wt%, dry basis	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass

Sugar cane	Sugar cane bagasse		Proximates	Galactan	0.4	wt%, dry basis	Combined ethanol and methane production using steam pretreated sugarcane bagasse
Banana	Banana pintoza		Proximates	Galactan	1.47	wt%, dry basis	ECN Phyllis 2
Hop	Hops		Proximates	Galactan	1	wt%, dry basis	ECN Phyllis 2
Hop	Hops	Bast	Proximates	Galactan	1.6	wt%, dry basis	ECN Phyllis 2
Pineapple	Pineapple		Proximates	Galactan	0.71	wt%, dry basis	ECN Phyllis 2
Potato	Potato mash		Proximates	Galactan	2.08	wt%, dry basis	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Proximates	Galactan	2	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Galactan	0.3	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Galactan	0.2	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Galactan	0.1	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Galactan	0.36	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Galactan	1	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Galactan	1.4	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Galactan	1.2	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Galactan	0.7	wt%, dry basis	ECN Phyllis 2

Coconut	Coconut husk		Proximates	Galactan	0.4	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Galactan	1.3	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Galactan	1.1	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Galactan	1.6	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Galactan	1.9	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut shell	Charcoal yield 41.4% at 1 MPa, fixed-C yield 30.1%	Proximates	Galactan	0	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Galactan	0.32	wt%, dry basis	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Galactan	0.4	wt%, dry basis	ECN Phyllis 2
Nuts, unspecified	Nut shells	Kukui. Charcoal yield 58.6% at 1 MPa, fixed-C yield 41.4%	Proximates	Galactan	0	wt%, dry basis	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Proximates	Galactan	0	wt%, dry basis	ECN Phyllis 2
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; end pressure MPa: 0.5	Proximates	Galactan	0.2	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; O2 pressure MPa: 0.6; end pressure MPa: 1.0	Proximates	Galactan	0.1	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; end pressure MPa: 0.7	Proximates	Galactan	0	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; O2 pressure MPa: 0.6; end pressure MPa: 1.7	Proximates	Galactan	0	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; end pressure MPa: 1.1	Proximates	Galactan	0.3	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; O2 pressure MPa: 0.6; end pressure MPa: 1.9	Proximates	Galactan	0.3	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; end pressure MPa: 1.4	Proximates	Galactan	1.2	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; O2 pressure MPa: 0.6; end pressure MPa: 2.2	Proximates	Galactan	0.7	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Potato	Potato fibres	Pressed	Proximates	Galactose	100	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Galactose	63	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Buffer insoluble solids		Proximates	Galactose	14	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Supernatant from pressed potato fibre		Proximates	Galactose	60	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Galactose	40	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Galactose	103	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Galactose	9	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Pears	Pear pomace		Proximates	Galactose	124.4	g/kg total sugar	Comparative study of alkaline extraction process of hemicelluloses from pear pomace
Apple	Pectin	Extracted, apple	Proximates	Galactose	2.15	% w/w d.b	Pectin from apple pomace: extraction, characterization and utilization
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Galactose	Tr	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Grape	Grape stalks		Proximates	Galactose	4.9	g/100g	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces

Wine by-products, unspecified	Holocellulose		Proximates	Galactose	1	g/100g	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Orange	Orange pulp, dried		Proximates	Galactose	65.7	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Galactose	15	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Galactose	11	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Galactose	10	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Wheat	Wheat bran extract	High starch. Origin of glucose is mainly starch	Proximates	Galactose	0.8	% DM	Comparison of two wheat bran extracts in the sheet extrusion process

Wheat	Wheat bran extract	High protein	Proximates	Galactose	1	% DM	Comparison of two wheat bran extracts in the sheet extrusion process
Grape	Grape pomace	Deseeded, without stalk. Area of production: Alsace. Red and white grapes (Vitis vinifera)	Proximates	Galactose	2.04	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Aquitaine. Red and white grapes (Vitis vinifera)	Proximates	Galactose	2.77	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Beaujolais. Red and white grapes (Vitis vinifera)	Proximates	Galactose	1.27	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Bourgogne. Red and white grapes (Vitis vinifera)	Proximates	Galactose	2.05	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Champagne. Red and white grapes (Vitis vinifera)	Proximates	Galactose	1.89	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Languedoc. Red and white grapes (Vitis vinifera)	Proximates	Galactose	1.74	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Val de Loire. Red and white grapes (Vitis vinifera)	Proximates	Galactose	1.41	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Provence. Red and white grapes (Vitis vinifera)	Proximates	Galactose	1.92	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Potato	Potato fibres	Pressed	Proximates	Galactose	30	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Galactose	48	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Buffer insoluble solids		Proximates	Galactose	8	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Proximates	Galactose	53	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Galactose	16	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Galactose	39	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Galactose	6	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Apple	Apple pomace		Proximates	Galactose	21.33	GC/MS	NOSHAN
Orange	Orange peel	Orange	Proximates	Galactose	35	GC/MS	NOSHAN
Hop	Hops		Proximates	Galactose	24	GC/MS	NOSHAN
Apple	Apple cake		Proximates	Galactose	27.07	GC/MS	NOSHAN
Cabbage	Cabbage		Proximates	Galactose	64	GC/MS	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Galactose	40	GC/MS	NOSHAN
Grape	Grape pomace		Proximates	Galactose	8	GC/MS	NOSHAN
Olive	Olive pomace		Proximates	Galactose	21	GC/MS	NOSHAN
Onion	Onion hulls		Proximates	Galactose	38	GC/MS	NOSHAN
Rape	Rapeseed press cake		Proximates	Galactose	15.99	GC/MS	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Galactose	44	GC/MS	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Galactose	44	GC/MS	NOSHAN
Tomatoes	Tomato skin		Proximates	Galactose	39	GC/MS	NOSHAN
Apple	Apple	Whole	Proximates	Galactose	24	GC/MS	NOSHAN
Pears	Pear	Whole	Proximates	Galactose	14	GC/MS	NOSHAN
Apple	Apple pomace		Proximates	Galactose	16.91	GC/MS	NOSHAN

Orange	Orange peel	Orange	Proximates	Galactose	105	GC/MS	NOSHAN
Hop	Hops		Proximates	Galactose	20	GC/MS	NOSHAN
Apple	Apple cake		Proximates	Galactose	26.44	GC/MS	NOSHAN
Cabbage	Cabbage		Proximates	Galactose	158	GC/MS	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Galactose	123	GC/MS	NOSHAN
Grape	Grape pomace		Proximates	Galactose	10	GC/MS	NOSHAN
Olive	Olive pomace		Proximates	Galactose	28	GC/MS	NOSHAN
Onion	Onion hulls		Proximates	Galactose	107	GC/MS	NOSHAN
Rape	Rapeseed press cake		Proximates	Galactose	16.3	GC/MS	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Galactose	63	GC/MS	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Galactose	50	GC/MS	NOSHAN
Tomatoes	Tomato skin		Proximates	Galactose	103	GC/MS	NOSHAN
Apple	Apple	Whole	Proximates	Galactose	38	GC/MS	NOSHAN
Pears	Pear	Whole	Proximates	Galactose	30	GC/MS	NOSHAN
Sugar beet	Sugar beet molasses	From pulp	Proximates	Galactose	23	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet pulp		Proximates	Galactose	25	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Galactose	8	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Carrot	Carrot		Proximates	Galactose	36	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Rye	Seed residue		Proximates	Galactose	13	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Galactose	14	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Galactose	13	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Galactose	44	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Galactose	156	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Galactose	55	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Galactose	5	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Galactose	5	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet molasses	From pulp	Proximates	Galactose	21	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Galactose	29	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Galactose	3	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients

Carrot	Carrot		Proximates	Galactose	7	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Galactose	0.67	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Galactose	0.54	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Galactose	0.97	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Proximates	Galactose	1.02	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Galactose	1.17	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Galactose	0.12	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Galactose	0.13	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Galactose	0.07	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Galactose	0.15	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Galactose	0.18	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Galactose, soluble	3	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Galactose, soluble	6	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Galactose, soluble	6	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Grape	Grape pomace	Deseeded, without stalk. Area of production: Alsace. Red and white grapes (Vitis vinifera)	Proximates	GalactoseUA	4.13	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Aquitaine. Red and white grapes (Vitis vinifera)	Proximates	GalactoseUA	5.99	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Beaujolais. Red and white grapes (Vitis vinifera)	Proximates	GalactoseUA	2.13	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Bourgogne. Red and white grapes (Vitis vinifera)	Proximates	GalactoseUA	5.38	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Champagne. Red and white grapes (Vitis vinifera)	Proximates	GalactoseUA	4.55	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Languedoc. Red and white grapes (Vitis vinifera)	Proximates	GalactoseUA	2.78	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Val de Loire. Red and white grapes (Vitis vinifera)	Proximates	GalactoseUA	3.05	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Provence. Red and white grapes (Vitis vinifera)	Proximates	GalactoseUA	3.99	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape cane	Alphone Lavallee	Simple phenols	Gallic acid	1.26	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Simple phenols	Gallic acid	1.48	µg/100g cane	Chemical composition of grape canes

Grape	Grape cane	Cardinal	Simple phenols	Gallic acid	1.88	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Hafizali	Simple phenols	Gallic acid	1.39	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Simple phenols	Gallic acid	2.06	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Isabella	Simple phenols	Gallic acid	2.12	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Italia	Simple phenols	Gallic acid	1.78	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Simple phenols	Gallic acid	1.24	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Simple phenols	Gallic acid	2.44	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Simple phenols	Gallic acid	3.2	µg/100g cane	Chemical composition of grape canes

Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Simple phenols	Gallic acid	2.5	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Simple phenols	Gallic acid	1.3	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Potato	Potato peel	Potato peel waste extracted using methanol 4 degrees C	Simple phenols	Gallic acid	12.66	mg/100g	Phenolics in Aqueous Potato Peel Extract: Extraction, Identification and Degradation

Potato	Potato peel	Potato peel waste extracted using water 25 degrees C	Simple phenols	Gallic acid	8.24	mg/100g	Phenolics in Aqueous Potato Peel Extract: Extraction, Identification and Degradation
Potato	Potato peel	Potato peel waste extracted using water 100 degrees C refluxed	Simple phenols	Gallic acid	12.96	mg/100g	Phenolics in Aqueous Potato Peel Extract: Extraction, Identification and Degradation
Potato	Potato peel	Potato peel waste liquid extract	Simple phenols	Gallic acid	0.13	mg/g	Potato peel waste: stability and antioxidant activity of a freeze-dried extract

Potato	Potato peel	Potato peel waste freeze-dried extract (amount of freeze-dried extract/5g potato peel waste was 0.28g)	Simple phenols	Gallic acid	4.00	mg/g	Potato peel waste: stability and antioxidant activity of a freeze-dried extract
Apple	Apple pomace		Inorganics	Gallium	0.29	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Gallium	0.16	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Gallium	<0.01	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Gallium	0.28	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Gallium	0.19	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Gallium	0.3	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Gallium	0.89	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Gallium	0.45	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Gallium	0.05	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Gallium	0.05	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Gallium	<0.01	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Gallium	0.35	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Gallium	0.68	ppm d.b.	NOSHAN

Mushrooms	Mushrooms		Inorganics	Gallium	<0.01	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Gallium	0.29	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Gallium	0.56	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Gallium	2.6	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Gallium	<0.01	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Gallium	0.1	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Gallium	0.33	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Gallium	0.56	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Gallium	1.74	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Gallium	<0.01	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Gallium	<0.01	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Gallium	<0.01	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Gallium	<0.01	ppm d.b.	NOSHAN
Grape	Grape seeds	White, Italian	Waste compounds	Gas volume, 24h incubation	12.1	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Red, Italian	Waste compounds	Gas volume, 24h incubation	11.9	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Californian	Waste compounds	Gas volume, 24h incubation	12.2	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Not ensiled	Waste compounds	Gas volume, 24h incubation	12.9	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Ensiled for 45 days	Waste compounds	Gas volume, 24h incubation	11.2	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	White, Italian	Waste compounds	Gas volume, 24h incubation	14.8	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Red, Italian	Waste compounds	Gas volume, 24h incubation	16.6	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Californian	Waste compounds	Gas volume, 24h incubation	21.3	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Not ensiled	Waste compounds	Gas volume, 24h incubation	18.1	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Ensiled for 45 days	Waste compounds	Gas volume, 24h incubation	17.1	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	White, Italian	Waste compounds	Gas volume, 48h incubation	17.8	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Red, Italian	Waste compounds	Gas volume, 48h incubation	18	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Californian	Waste compounds	Gas volume, 48h incubation	19.2	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Not ensiled	Waste compounds	Gas volume, 48h incubation	19.4	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Ensiled for 45 days	Waste compounds	Gas volume, 48h incubation	17.3	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	White, Italian	Waste compounds	Gas volume, 48h incubation	24.6	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Red, Italian	Waste compounds	Gas volume, 48h incubation	26.3	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Californian	Waste compounds	Gas volume, 48h incubation	32.7	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Not ensiled	Waste compounds	Gas volume, 48h incubation	29.4	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Ensiled for 45 days	Waste compounds	Gas volume, 48h incubation	26.4	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	White, Italian	Waste compounds	Gas volume, 4h incubation	5	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Red, Italian	Waste compounds	Gas volume, 4h incubation	5	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Californian	Waste compounds	Gas volume, 4h incubation	5.5	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Not ensiled	Waste compounds	Gas volume, 4h incubation	5.4	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Ensiled for 45 days	Waste compounds	Gas volume, 4h incubation	4.9	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	White, Italian	Waste compounds	Gas volume, 4h incubation	7.8	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Red, Italian	Waste compounds	Gas volume, 4h incubation	9.2	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Californian	Waste compounds	Gas volume, 4h incubation	12.2	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Not ensiled	Waste compounds	Gas volume, 4h incubation	9.7	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Ensiled for 45 days	Waste compounds	Gas volume, 4h incubation	9.7	ml/0.2g DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Apple	Apple pomace		Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Germanium	0.1	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Germanium	0.12	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Germanium	0.15	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN

Grape	Grape pomace		Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Germanium	1.12	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Germanium	0.27	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Germanium	0.01	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Germanium	0.19	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Germanium	0.17	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Germanium	<0.01	ppm d.b.	NOSHAN

Nuts, unspecified	Nut shells	Almond	Proximates	Glacan	45	g/kg DM	Development of an integrated pretreatment fractionation process for fermentable sugars and lignin, application to almond shell
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Globulin	12.4	% protein	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Globulin	12.7	% protein	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Globulin	12.9	% protein	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Globulin	16.2	% protein	Utilization of fruit and vegetable wastes, FAO

Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Globulin	12.4	% protein	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Globulin	12.3	% protein	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Proximates	Globulin	6.4	% protein	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Globulin	8.1	% protein	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Globulin	11.9	% protein	Utilization of fruit and vegetable wastes, FAO

Sugar by-products, unspecified	Bagasse		Proximates	Glucan	39.5	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Proximates	Glucan	32.5	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Olive	Olive tree pruning	Biomass	Proximates	Glucan	23.7	% DM	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass

Sugar cane	Sugar cane bagasse		Proximates	Glucan	46.6	% DM	Combined ethanol and methane production using steam pretreated sugarcane bagasse
Sugar by-products, unspecified	Bagasse		Proximates	Glucan	33.8	% DM	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Banana	Banana pintoza		Proximates	Glucan	43.24	% DM	ECN Phyllis 2
Hop	Hops		Proximates	Glucan	37.9	% DM	ECN Phyllis 2
Hop	Hops	Bast	Proximates	Glucan	48.2	% DM	ECN Phyllis 2
Pineapple	Pineapple		Proximates	Glucan	64.35	% DM	ECN Phyllis 2
Potato	Potato mash		Proximates	Glucan	86.4	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Proximates	Glucan	27.5	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Glucan	28.6	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Glucan	29.3	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Glucan	35.6	% DM	ECN Phyllis 2

Coconut	Coconut fibre		Proximates	Glucan	36.7	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Glucan	34.87	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Glucan	36.4	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Glucan	27.8	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Glucan	24.4	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Glucan	20.1	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Glucan	29.4	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Glucan	34.6	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Glucan	17.8	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Glucan	18.3	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Glucan	15.7	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Glucan	19.9	% DM	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Glucan	25.91	% DM	ECN Phyllis 2
Olive	Olive pits	Ethanol/benzene extractives 1.5%, alpha-cellulose 28%, pentosan 18.5%	Proximates	Glucan	28.1	% DM	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Glucan	13.8	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Kukui. Charcoal yield 58.6% at 1 MPa, fixed-C yield 41.4%	Proximates	Glucan	16.2	% DM	ECN Phyllis 2

Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Proximates	Glucan	29.9	% DM	ECN Phyllis 2
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; end pressure MPa: 0.5	Proximates	Glucan	11.5	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; O2 pressure MPa: 0.6; end pressure MPa: 1.0	Proximates	Glucan	12	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; end pressure MPa: 0.7	Proximates	Glucan	11.3	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; O2 pressure MPa: 0.6; end pressure MPa: 1.7	Proximates	Glucan	14.3	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; end pressure MPa: 1.1	Proximates	Glucan	11.2	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; O2 pressure MPa: 0.6; end pressure MPa: 1.9	Proximates	Glucan	16.8	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; end pressure MPa: 1.4	Proximates	Glucan	13.4	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; O2 pressure MPa: 0.6; end pressure MPa: 2.2	Proximates	Glucan	11.3	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Nuts, unspecified	Nut shells	Almond	Proximates	Glucan	228	g/kg DM	Development of an integrated pretreatment fractionation process for fermentable sugars and lignin, application to almond shell

Soy	Soybean meal	Soya bean	Proximates	Glucan, beta	<0.1	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed cake		Proximates	Glucan, beta	1	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Glucan, beta	<0.5	% DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Glucan, beta	0.5	% DM	NOSHAN

Barley	Malted barley germs		Proximates	Glucan, beta	0.6	% DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Glucan, beta	4.2	% DM	NOSHAN
Wine by-products, unspecified	Lees	Yeast	Proximates	Glucan, beta 1,3	6-12	%	Utilization of fruit and vegetable wastes, FAO
Rape	Rapeseed	Untreated	Waste compounds	Glucobrassicanapin	0.5	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed press cake	Untreated	Waste compounds	Glucobrassicanapin	0.6	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed press cake	Soaked and dried	Waste compounds	Glucobrassicanapin	<0.1	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed	Untreated	Waste compounds	Glucobrassicin	0.2	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed press cake	Untreated	Waste compounds	Glucobrassicin	0.3	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed press cake	Soaked and dried	Waste compounds	Glucobrassicin	<0.1	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed	Untreated	Waste compounds	Gluconapin	2.8	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed press cake	Untreated	Waste compounds	Gluconapin	3.1	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed press cake	Soaked and dried	Waste compounds	Gluconapin	<0.1	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Potato	Potato fibres	Pressed	Proximates	Glucose	100	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Glucose	<1	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Buffer insoluble solids		Proximates	Glucose	119	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Proximates	Glucose	1	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Glucose	112	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Glucose	60	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Glucose	57	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Pears	Pear pomace		Proximates	Glucose	329.3	g/kg total sugar	Comparative study of alkaline extraction process of hemicelluloses from pear pomace
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Glucose	2.4	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Olive	Isolated lignin from olive tree pruning	By organosolv pretreatment	Proximates	Glucose	1.75	g/100g	Biorefining of olive tree (Olea europea) pruning

Grape	Grape stalks		Proximates	Glucose	62.7	g/100g	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Wine by-products, unspecified	Holocellulose		Proximates	Glucose	74.9	g/100g	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Hop	Hops		Proximates	Glucose	13.9	g/kg	NOSHAN
Barley	Malted barley germs		Proximates	Glucose	4.5	g/kg	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Glucose	11.1	g/kg	NOSHAN
Sugar beet	Sugar beet molasses	From pulp	Proximates	Glucose	12	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet pulp		Proximates	Glucose	5	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Glucose	1	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Carrot	Carrot		Proximates	Glucose	124	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Orange	Orange pulp, dried		Proximates	Glucose	290	g/kg DM	Citrus by-products as ruminant feeds: A review

Distillers grain	Distillers grain	Corn, with solubles	Proximates	Glucose	28	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Glucose	33	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Glucose	28	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Pineapple	Pineapple waste	Raw	Proximates	Glucose	8-15	% DM	Utilization of fruit and vegetable wastes, FAO
Wheat	Wheat bran extract	High starch. Origin of glucose is mainly starch	Proximates	Glucose	44.5	% DM	Comparison of two wheat bran extracts in the sheet extrusion process
Wheat	Wheat bran extract	High protein	Proximates	Glucose	11.4	% DM	Comparison of two wheat bran extracts in the sheet extrusion process

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Proximates	Glucose	0.85	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Proximates	Glucose	0.88	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Proximates	Glucose	0.42	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Proximates	Glucose	0.91	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Apple	Pectin	Extracted, apple	Proximates	Glucose	5.48	% w/w d.b	Pectin from apple pomace: extraction, characterization and utilization
Palm	Palm empty fruit bunches	Oil palm empty fruit bunches before hydrothermal pretreatment	Proximates	Glucose	33.3	% w/w d.b	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion
Palm	Palm empty fruit bunches	Oil palm empty fruit bunches fibres after hydrothermal pretreatment	Proximates	Glucose	43.1	% w/w d.b	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion

Grape	Grape pomace	Deseeded, without stalk. Area of production: Alsace. Red and white grapes (Vitis vinifera)	Proximates	Glucose	21.54	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Aquitaine. Red and white grapes (Vitis vinifera)	Proximates	Glucose	26.34	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Beaujolais. Red and white grapes (Vitis vinifera)	Proximates	Glucose	12.36	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Bourgogne. Red and white grapes (Vitis vinifera)	Proximates	Glucose	16.3	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Champagne. Red and white grapes (Vitis vinifera)	Proximates	Glucose	18.71	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Languedoc. Red and white grapes (Vitis vinifera)	Proximates	Glucose	17.42	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Val de Loire. Red and white grapes (Vitis vinifera)	Proximates	Glucose	9.85	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Provence. Red and white grapes (Vitis vinifera)	Proximates	Glucose	17.43	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Sugar by-products, unspecified	Bagasse	Liquid fraction filtrate. Experimental conditions: 155°C; O2 pressure MPa: 0.6; end pressure MPa: 1.0	Proximates	Glucose	2	g/L	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Liquid fraction filtrate. Experimental conditions: 170°C; end pressure MPa: 0.7	Proximates	Glucose	3.1	g/L	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Liquid fraction filtrate. Experimental conditions: 170°C; O2 pressure MPa: 0.6; end pressure MPa: 1.7	Proximates	Glucose	2.7	g/L	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Liquid fraction filtrate. Experimental conditions: 185°C; end pressure MPa: 1.1	Proximates	Glucose	2.5	g/L	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Liquid fraction filtrate. Experimental conditions: 185°C; O2 pressure MPa: 0.6; end pressure MPa: 1.9	Proximates	Glucose	5.1	g/L	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Liquid fraction filtrate. Experimental conditions: 200°C; end pressure MPa: 1.4	Proximates	Glucose	2.3	g/L	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Liquid fraction filtrate. Experimental conditions: 200°C; O2 pressure MPa: 0.6; end pressure MPa: 2.2	Proximates	Glucose	5.8	g/L	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Potato	Potato fibres	Pressed	Proximates	Glucose	37	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Glucose	<1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Buffer insoluble solids		Proximates	Glucose	69	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Proximates	Glucose	2	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Residue from pressed potato fibres		Proximates	Glucose	58	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Glucose	28	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Glucose	57	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Apple	Apple pomace		Proximates	Glucose	72.87	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Orange	Orange peel	Orange	Proximates	Glucose	11	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Hop	Hops		Proximates	Glucose	8	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple cake		Proximates	Glucose	27.22	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage		Proximates	Glucose	20	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Glucose	7	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Grape	Grape pomace		Proximates	Glucose	3	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Olive	Olive pomace		Proximates	Glucose	34	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Onion	Onion hulls		Proximates	Glucose	18	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Rape	Rapeseed press cake		Proximates	Glucose	11.13	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Glucose	38	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Proximates	Glucose	7	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Tomatoes	Tomato skin		Proximates	Glucose	7	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple	Whole	Proximates	Glucose	16	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Pears	Pear	Whole	Proximates	Glucose	8	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple pomace		Proximates	Glucose	55.42	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Orange	Orange peel	Orange	Proximates	Glucose	10	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Hop	Hops		Proximates	Glucose	6	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Apple	Apple cake		Proximates	Glucose	15.8	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage		Proximates	Glucose	21	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Grape	Grape pomace		Proximates	Glucose	12	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Olive	Olive pomace		Proximates	Glucose	28	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Onion	Onion hulls		Proximates	Glucose	13	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Rape	Rapeseed press cake		Proximates	Glucose	10.02	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Glucose	22	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Glucose	5	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Tomatoes	Tomato skin		Proximates	Glucose	6	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Apple	Apple	Whole	Proximates	Glucose	10	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Pears	Pear	Whole	Proximates	Glucose	10	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet molasses	From pulp	Proximates	Glucose	6	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet pulp		Proximates	Glucose	nd	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Glucose	3	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Carrot	Carrot		Proximates	Glucose	nd	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Rye	Seed residue		Proximates	Glucose	28	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Glucose	18	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Glucose	28	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Glucose	27	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Glucose	17	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Glucose	14	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Glucose	12	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Glucose	47	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet molasses	From pulp	Proximates	Glucose	nd	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Glucose	8	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Glucose	nd	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients

Carrot	Carrot		Proximates	Glucose	4	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Glucose	4.59	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Glucose	3.16	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Glucose	7.33	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Proximates	Glucose	9.16	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Glucose	8.43	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Glucose	0.2	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Glucose	0.15	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Glucose	0.33	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Glucose	0.38	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Glucose	0.43	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Tomatoes	Tomato pomace	Pulper stage of tomato processing for paste	Proximates	Glucose	9.04	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	Finisher stage of tomato processing for paste	Proximates	Glucose	13.60	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	Before turbostage stage of tomato processing for paste	Proximates	Glucose	15.83	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	After turbostage stage of tomato processing for paste	Proximates	Glucose	12.54	g/kg	Chemical characterization of tomato pomace

Olive	Olive tree pruning	Biomass	Waste compounds	Glucose in extractives	6.2	% DM	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Glucose, soluble	3	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Glucose, soluble	11	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Glucose, soluble	8	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Grape	Grape pomace	Deseeded, without stalk. Area of production: Alsace. Red and white grapes (Vitis vinifera)	Proximates	GlucoseUA	0.24	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Aquitaine. Red and white grapes (Vitis vinifera)	Proximates	GlucoseUA	0.33	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Beaujolais. Red and white grapes (Vitis vinifera)	Proximates	GlucoseUA	0.16	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Bourgogne. Red and white grapes (Vitis vinifera)	Proximates	GlucoseUA	0.3	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Champagne. Red and white grapes (Vitis vinifera)	Proximates	GlucoseUA	0.31	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Languedoc. Red and white grapes (Vitis vinifera)	Proximates	GlucoseUA	0.22	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Val de Loire. Red and white grapes (Vitis vinifera)	Proximates	GlucoseUA	0.24	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Provence. Red and white grapes (Vitis vinifera)	Proximates	GlucoseUA	0.22	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Glucosinolates	Glucosinolates, total	7.4	µmol/g DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Glucosinolates	Glucosinolates, total	10	µmol/g DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Glucosinolates	Glucosinolates, total	5.4	µmol/g DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Glucosinolates	Glucosinolates, total	28.9	µmol/g DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Glucosinolates	Glucosinolates, total	14.3	µmol/g DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Glucosinolates	Glucosinolates, total	23.7	µmol/g DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Glucosinolates	Glucosinolates, total	9.9	µmol/g DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Glucosinolates	Glucosinolates, total	11.6	µmol/g DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Glucosinolates	Glucosinolates, total	17.8	µmol/g DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Glucosinolates	Glucosinolates, total	21	µmol/g DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Glucosinolates	Glucosinolates, total	11.66	µmol/g DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Glucosinolates	Glucosinolates, total	15.33	µmol/g DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Glucosinolates	Glucosinolates, total	13.57	µmol/g DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Glucosinolates	Glucosinolates, total	14.48	µmol/g DM	Feedipedia
Canola	Canola meal	Average of analysed values	Glucosinolates	Glucosinolates, total	4.6	µmol/g DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities

Canola	Juncea canola meal		Glucosinolates	Glucosinolates, total	10.84	µmol/g	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Canola	Canola meal	Average of analysed values	Glucosinolates	Glucosinolates, total indole	0.82	µmol/g DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Grape	Grape pomace, dried	Air dried	Anthocyanins	Glucosylated anthocyanins	22285	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Anthocyanins	Glucosylated anthocyanins	15843	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Anthocyanins	Glucosylated anthocyanins	21099	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Rape	Rapeseed hulls	Purified	Proximates	Glutamic acid	19.1	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls
Cabbage	Cabbage meal		Proximates	Glutamic acid	9.6	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Orange	Orange pulp, dried		Proximates	Glutamic acid	5.9	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Glutamic acid	65.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Glutamic acid	64.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Glutamic acid	66.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Glutamic acid	64.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Glutamic acid	60.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Glutamic acid	69.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Glutamic acid	67	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Glutamic acid	62.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Glutamic acid	68.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Glutamic acid	65	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rye	Seed residue		Proximates	Glutamic acid	15.9	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Glutamic acid	11.6	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Glutamic acid	18.2	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Glutamic acid	12.1	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Glutamic acid	7.82	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Glutamic acid	9.35	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Glutamic acid	27	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Glutamic acid	22.1	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Glutamic acid	55.4	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Glutamic acid	47.4	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Glutamic acid	10.58	% protein	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Glutamic acid	9.91	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Glutamic acid	13.14	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Glutamic acid	13.6	% protein	Chemical characterization of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Glutamic acid	10.3	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Glutamic acid	25.8	% protein	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Glutamic acid	9.1	% protein	Feedipedia

Palm	Oil palm leaflets	Fresh	Proximates	Glutamic acid	10.1	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Glutamic acid	17.1	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Glutamic acid	21.8	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Glutamic acid	19.9	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Glutamic acid	21.8	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Glutamic acid	17.3	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Glutamic acid	9.6	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Glutamic acid	15.9	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Glutamic acid	16.6	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Glutamic acid	17.7	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Glutamic acid	16.6	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Glutamic acid	13.5	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Glutamic acid	13	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Glutamic acid	12.7	% protein	Feedipedia

Rice	Rice bran	Defatted, fibre <11%	Proximates	Glutamic acid	15.5	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Glutamic acid	12.6	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Glutamic acid	12.7	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Glutamic acid	12.5	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Glutamic acid	19.3	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Glutamic acid	20.9	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Glutamic acid	21.1	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Glutamic acid	20.3	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Glutamic acid	19.9	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Glutamic acid	20	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Glutamic acid	19	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Glutamic acid	25.8	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Glutamic acid	25.5	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Glutamic acid	13.5	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Glutamic acid	27.8	% protein	Feedipedia

Wheat	Wheat grain	Durum	Proximates	Glutamic acid	29.1	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Glutamic acid	10.5	% protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Glutamic acid	17.8	% protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Glutamic acid	8.3	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Glutamic acid	19	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Glutamic acid	18.2	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Glutamic acid	18.1	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Glutamic acid	18.2	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Glutamic acid	20.4	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Glutamic acid	21.5	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Glutamic acid	11.6	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Glutamic acid	12.5	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Glutamic acid	15.1	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Glutamic acid	12	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Glutamic acid	18.6	% protein	Feedipedia

Palm	Palm kernel meal	Solvent extraction	Proximates	Glutamic acid	18.8	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Glutamic acid	10.9	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Glutamic acid	8.6	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Glutamic acid	9.9	% protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Glutamic acid	10.8	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Glutamic acid	19.6	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Glutamic acid	20.5	% protein	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Glutamic acid	15.3	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Glutamic acid	1.8	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Glutamic acid	16.8	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Glutamic acid	17.6	% protein	Feedipedia

Canola	Canola meal	Oil <5% as fed	Proximates	Glutamic acid	17.7	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Glutamic acid	18	% protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Glutamic acid	8	% protein	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Glutamic acid	18.4	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Glutamic acid	18.1	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Glutamic acid	18.7	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Glutamic acid	8.7	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Glutamic acid	10.1	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Glutamic acid	17.7	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Glutamic acid	17.9	% protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Glutamic acid	17.9	% protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Glutamic acid	17.8	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Glutamic acid	18.4	% protein	Feedipedia

Soy	Soybeans	Toasted	Proximates	Glutamic acid	17.7	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Glutamic acid	18	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Glutamic acid	18.9	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Glutamic acid	18.8	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Glutamic acid	19.2	% protein	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Glutamic acid	15.6	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Glutamic acid	21.1	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Glutamic acid	10.2	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Glutamic acid	8.4	% protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Glutamic acid	7	% protein	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Glutamic acid	6.5	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Glutamic acid	7.7	% protein	Feedipedia

Coffee	Instant coffee by product		Proximates	Glutamic acid	12.9	% protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Glutamic acid	11.8	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Glutamic acid	8.8	% protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Glutamic acid	10	% protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Glutamic acid	13.2	% protein	Feedipedia
Grape	Grape seeds		Proximates	Glutamic acid	20.5	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Glutamic acid	39.6	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Glutamic acid	47.8	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Glutamic acid	18.8	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Glutamic acid	16.4	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Glutamic acid	9.7	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Glutamic acid	16.7	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Glutamic acid	9.9	% protein	Feedipedia

Potato	Sweet potato, aerial part	Fresh	Proximates	Glutamic acid	7.9	% protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Glutamic acid	10	% protein	Feedipedia
Potato	Sweet potato leaf protein concentrate		Proximates	Glutamic acid	11.3	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Glutamic acid	12.2	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Glutamic acid	9.7	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Glutamic acid	10	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Glutamic acid	13.3	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Glutamic acid	29.9	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Glutamic acid	22.5	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Glutamic acid	1.1	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Glutamic acid	16	% protein	Feedipedia

Animal by-products, unspecified	Blood meal		Proximates	Glutamic acid	9.5	% protein	Feedipedia
Poultry	Feather meal		Proximates	Glutamic acid	10.6	% protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Glutamic acid	12.6	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Glutamic acid	12.6	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Glutamic acid	12.6	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Glutamic acid	14.5	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Glutamic acid	10.6	% protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Glutamic acid	16.4	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Glutamic acid	9.6	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Glutamic acid	10.8	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Glutamic acid	11.9	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Glutamic acid	11.8	% protein	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Glutamic acid	10.9	% protein	Feedipedia

Beef	Rumen content	Dehydrated	Proximates	Glutamic acid	8.1	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Glutamic acid	12	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Glutamic acid	11.9	% protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Glutamic acid	15.1	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Glutamic acid	14.6	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Glutamic acid	14.7	% protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Glutamic acid	13.7	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Glutamic acid	9.6	% protein	Feedipedia
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Glutamic acid	36.1	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Glutamic acid	97.9	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Glutamic acid	4.77	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Glutamic acid	4.17	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Glutamic acid	4.15	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Glutamic acid	4.29	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Canola	Canola meal	Average of analysed values	Proximates	Glutamic acid	67.2	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities

Apple	Apple pomace		Proximates	Glutamic acid	2.69	% D AA	NOSHAN
Orange	Orange peel	Orange	Proximates	Glutamic acid	3.24	% D AA	NOSHAN
Cheese	Whey	Milk	Proximates	Glutamic acid	3.16	% D AA	NOSHAN
Hop	Hops		Proximates	Glutamic acid	4.89	% D AA	NOSHAN
Apple	Apple cake		Proximates	Glutamic acid	0.07	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Glutamic acid	2.37	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Glutamic acid	2.8	% D AA	NOSHAN
Cabbage	Cabbage		Proximates	Glutamic acid	1.38	% D AA	NOSHAN
Cheese	Cheese	Hard	Proximates	Glutamic acid	2.89	% D AA	NOSHAN
Cheese	Cheese	Soft	Proximates	Glutamic acid	2.87	% D AA	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Glutamic acid	7.24	% D AA	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Glutamic acid	3	% D AA	NOSHAN
Grape	Grape pomace		Proximates	Glutamic acid	11.44	% D AA	NOSHAN
Barley	Malted barley germs		Proximates	Glutamic acid	7.86	% D AA	NOSHAN
Barley	Malted barley germs		Proximates	Glutamic acid	6.9	% D AA	NOSHAN
Mushrooms	Mushrooms		Proximates	Glutamic acid	6.21	% D AA	NOSHAN
Olive	Olive pomace		Proximates	Glutamic acid	4.09	% D AA	NOSHAN
Onion	Onion hulls		Proximates	Glutamic acid	3.09	% D AA	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Glutamic acid	3.29	% D AA	NOSHAN

Potato	Potato	Selected	Proximates	Glutamic acid	4.27	% D AA	NOSHAN
Potato	Potato skin		Proximates	Glutamic acid	5.72	% D AA	NOSHAN
Rape	Rapeseed press cake		Proximates	Glutamic acid	4.41	% D AA	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Glutamic acid	15.32	% D AA	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Glutamic acid	2.99	% D AA	NOSHAN
Tomatoes	Tomato skin		Proximates	Glutamic acid	3.56	% D AA	NOSHAN
Apple	Apple	Whole	Proximates	Glutamic acid	1.6	% D AA	NOSHAN
Pears	Pear	Whole	Proximates	Glutamic acid	4.54	% D AA	NOSHAN
Yoghurt	Yoghurt		Proximates	Glutamic acid	4.6	% D AA	NOSHAN
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Glutamic acid	13.57	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Glutamic acid	14.45	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Saltwater fish silage	Acid	Proximates	Glutamic acid	14.04	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Glutamic acid	16.18	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Glutamic acid	13.83	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Glutamic acid	9.26	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Glutamic acid	13.88	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Tilapia	Tilapia residue silage	Fermented	Proximates	Glutamic acid	14.76	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Glutamic acid	13.1	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Proximates	Glutamic acid	8.99	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Proximates	Glutamic acid	7.56	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Proximates	Glutamic acid	1.92	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Proximates	Glutamic acid	7.65	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Glutamic acid	31.2	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Glutamic acid	15.9	g/kg DM	Nutritive value of plantain and chicory for pigs

Milk	Milk	Holstein Friesian cows, Spain	Proximates	Glutamic acid	554.30	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Glutamic acid	694.58	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Glutamic acid	20.2	g/16g N	Feedipedia
Apple	Apple pomace		Proximates	Glutamic acid/Glutamine	4.73	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Glutamic acid/Glutamine	7.13	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Glutamic acid/Glutamine	15.16	mg/g dry matter	NOSHAN

Hop	Hops		Proximates	Glutamic acid/Glutamine	11.27	mg/g dry matter	NOSHAN
Apple	Apple cake		Proximates	Glutamic acid/Glutamine	2.11	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Glutamic acid/Glutamine	51.72	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Glutamic acid/Glutamine	50.37	mg/g dry matter	NOSHAN
Cabbage	Cabbage		Proximates	Glutamic acid/Glutamine	8.3	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Glutamic acid/Glutamine	88.09	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Glutamic acid/Glutamine	70.24	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Glutamic acid/Glutamine	123.55	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Glutamic acid/Glutamine	17.09	mg/g dry matter	NOSHAN

Grape	Grape pomace		Proximates	Glutamic acid/Glutamine	12.28	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Glutamic acid/Glutamine	26.26	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Glutamic acid/Glutamine	29.53	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Glutamic acid/Glutamine	29.79	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Glutamic acid/Glutamine	5.31	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Glutamic acid/Glutamine	13.26	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Glutamic acid/Glutamine	1.95	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Glutamic acid/Glutamine	9.59	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Glutamic acid/Glutamine	9.61	mg/g dry matter	NOSHAN

Rape	Rapeseed press cake		Proximates	Glutamic acid/Glutamine	38.07	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Glutamic acid/Glutamine	4.99	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Glutamic acid/Glutamine	9.2	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Glutamic acid/Glutamine	8.67	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Glutamic acid/Glutamine	1.55	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Glutamic acid/Glutamine	2.19	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Glutamic acid/Glutamine	37.31	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Glutamic acid/Glutamine	0.97	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Glutamic acid/Glutamine	7.79	mg/g DM	NOSHAN

Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Glutamic acid/Glutamine	0.78	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Glutamic acid/Glutamine	4.29	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Glutamic acid/Glutamine	0.79	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Glutamic acid/Glutamine	2.62	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Glutamic acid/Glutamine	0.32	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Glutamic acid/Glutamine	2.98	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Glutamic acid/Glutamine	4.52	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Glutamic acid/Glutamine	0.3	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Glutamic acid/Glutamine	0.18	mg/g DM	NOSHAN

Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Glutelin	35.2	% protein	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Glutelin	14.7	% protein	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Glutelin	15.6	% protein	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Glutelin	21.3	% protein	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Glutelin	35.2	% protein	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Glutelin	7	% protein	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Proximates	Glutelin	17	% protein	Utilization of fruit and vegetable wastes, FAO

Melon	Watermelon, peels	Citrullus lanatus	Proximates	Glutelin	22.8	% protein	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Glutelin	18.9	% protein	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace		Proximates	Glycine	1.94	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Glycine	3.8	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Glycine	1.1	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Glycine	5.72	mg/g dry matter	NOSHAN
Apple	Apple cake		Proximates	Glycine	1.19	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Glycine	15.28	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Glycine	10.82	mg/g dry matter	NOSHAN
Cabbage	Cabbage		Proximates	Glycine	2.04	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Glycine	7.73	mg/g dry matter	NOSHAN

Cheese	Cheese	Soft	Proximates	Glycine	5.95	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Glycine	11.18	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Glycine	5.12	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Glycine	5.61	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Glycine	11.36	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Glycine	12.99	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Glycine	11	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Glycine	2.32	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Glycine	2.39	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Glycine	1.29	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Glycine	2.03	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Glycine	2.24	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Glycine	14.45	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Glycine	2.59	mg/g dry matter	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Proximates	Glycine	4.54	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Glycine	0.98	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Glycine	0.96	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Glycine	1.1	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Glycine	4.01	mg/g dry matter	NOSHAN
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Glycine	10.8	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Glycine	15.1	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Rape	Rapeseed hulls	Purified	Proximates	Glycine	6.8	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls
Cabbage	Cabbage meal		Proximates	Glycine	5.9	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Orange	Orange pulp, dried		Proximates	Glycine	2.4	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Glycine	18.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Glycine	18	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Glycine	19.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Glycine	17.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Glycine	19.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Glycine	18.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Glycine	17.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Glycine	19	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Glycine	18.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rye	Seed residue		Proximates	Glycine	4.81	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Glycine	4.38	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Glycine	4.08	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Glycine	5.42	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Glycine	3.59	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Sugar beet	Sugar beet pulp		Proximates	Glycine	4.39	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Glycine	4.17	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Glycine	4.19	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Glycine	66.4	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Glycine	63	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Glycine	4.25	% protein	Chemical characterizatio n of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Glycine	6.77	% protein	Chemical characterizatio n of tomato pomace

Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Glycine	7.08	% protein	Chemical characterizatio n of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Glycine	10.87	% protein	Chemical characterizatio n of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Glycine	5.2	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Glycine	4.2	% protein	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Glycine	4.7	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Glycine	4.3	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Glycine	4	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Glycine	3.4	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Glycine	5.1	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Glycine	4.5	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Glycine	3.7	% protein	Feedipedia

Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Glycine	4	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Glycine	3.5	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Glycine	3.8	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Glycine	3.5	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Glycine	4.9	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Glycine	5.3	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Glycine	5.2	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Glycine	5.1	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Glycine	5	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Glycine	5.4	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Glycine	2.9	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Glycine	3.1	% protein	Feedipedia

Sorghum	Sorghum gluten feed		Proximates	Glycine	4	% protein	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Glycine	2.2	% protein	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Glycine	5.3	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Glycine	3.2	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Glycine	3.2	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Glycine	3	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Glycine	3.1	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Glycine	3	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Glycine	5.1	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Glycine	4	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Glycine	3.9	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Glycine	5	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Glycine	4	% protein	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Glycine	3.9	% protein	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Glycine	4.2	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Glycine	4.2	% protein	Feedipedia

Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Glycine	4.1	% protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Glycine	2.9	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Glycine	4.1	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Glycine	4.2	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Glycine	4.1	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Glycine	4	% protein	Feedipedia
Grape	Grape seeds		Proximates	Glycine	8.3	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Glycine	6	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Glycine	6.4	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Glycine	4.9	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Glycine	5.3	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Glycine	4.8	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Glycine	5	% protein	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Glycine	4.7	% protein	Feedipedia

Palm	Palm kernel meal	Mechanical extraction	Proximates	Glycine	4.5	% protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Glycine	4.7	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Glycine	9.4	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Glycine	4.3	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Glycine	4.7	% protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Glycine	4.7	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Glycine	5.9	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Glycine	6	% protein	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Glycine	13.6	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Glycine	0.6	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Glycine	5	% protein	Feedipedia

Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Glycine	5.3	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Glycine	5	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Glycine	5.5	% protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Glycine	4.2	% protein	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Glycine	5	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Glycine	4.9	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Glycine	4.6	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Glycine	4.2	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Glycine	7.9	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Glycine	4.2	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Glycine	4.2	% protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Glycine	4.2	% protein	Feedipedia

Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Glycine	4.2	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Glycine	4.2	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Glycine	4.3	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Glycine	4.2	% protein	Feedipedia
Sunflower	Sunflower screenings		Proximates	Glycine	8.7	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Glycine	5.6	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Glycine	5.8	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Glycine	5.7	% protein	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Glycine	4.7	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Glycine	5.9	% protein	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Glycine	3	% protein	Feedipedia

Apple	Apple	Whole, fresh	Proximates	Glycine	4.2	% protein	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Glycine	1.6	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Glycine	4.5	% protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Glycine	3.2	% protein	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Glycine	3	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Glycine	4.2	% protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Glycine	4.7	% protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Glycine	4.2	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Glycine	4	% protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Glycine	5.7	% protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Glycine	5.5	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Glycine	2.4	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Glycine	1.7	% protein	Feedipedia

Carrot	Carrot	Roots, fresh	Proximates	Glycine	3.7	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Glycine	3.1	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Glycine	4.3	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Glycine	3.6	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Glycine	4.5	% protein	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Glycine	2.3	% protein	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Glycine	5.5	% protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Glycine	4.4	% protein	Feedipedia
Potato	Sweet potato leaf protein concentrate		Proximates	Glycine	5.4	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Glycine	4.7	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Glycine	4.3	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Glycine	1.9	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Glycine	3.8	% protein	Feedipedia

Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Glycine	0.9	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Glycine	0.4	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Glycine	0.3	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Glycine	6.3	% protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Glycine	4.5	% protein	Feedipedia
Animal by-products, unspecified	Blood meal	Chicken	Proximates	Glycine	4.3	% protein	Feedipedia
Poultry	Feather meal		Proximates	Glycine	7.3	% protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Glycine	5.9	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Glycine	6.4	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Glycine	7	% protein	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Glycine	5.6	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Glycine	9.1	% protein	Feedipedia

Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Glycine	8.8	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Glycine	8.9	% protein	Feedipedia
Poultry	Hatchery by product		Proximates	Glycine	5.5	% protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Glycine	6.9	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Glycine	25.5	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Glycine	22.8	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Glycine	8	% protein	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Glycine	3.6	% protein	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Glycine	12	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Glycine	12.7	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Glycine	12.3	% protein	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Glycine	8.8	% protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Glycine	3.9	% protein	Feedipedia

Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Glycine	4.8	% protein	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Glycine	7.8	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Glycine	5	% protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Glycine	1.9	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Glycine	1.6	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Glycine	4	% protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Glycine	4.8	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Glycine	5.6	% protein	Feedipedia
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Glycine	0.95	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Glycine	0.85	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Glycine	0.91	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Glycine	2.04	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Glycine	4.59	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Canola	Canola meal	Average of analysed values	Proximates	Glycine	18	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Hop	Hops		Proximates	Glycine	0.18	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Glycine	0.62	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Glycine	0.15	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Glycine	0.38	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Glycine	0.04	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Glycine	0.23	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Glycine	0.11	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Glycine	0.35	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Glycine	0.54	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Glycine	0.1	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Glycine	0	mg/g DM	NOSHAN

Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Glycine	6.49	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Glycine	5.87	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Glycine	8.17	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Glycine	6.2	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Glycine	6.32	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Freshwater fish silage	Acid	Proximates	Glycine	11.55	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Glycine	7.5	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Glycine	9.22	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Glycine	12.32	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Glycine	14.0	g/kg DM	Nutritive value of plantain and chicory for pigs

Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Glycine	8.0	g/kg DM	Nutritive value of plantain and chicory for pigs
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Glycine	49.24	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Glycine	55.83	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Glycine	4.7	g/16g N	Feedipedia

Cheese	Whey	Milk	Proximates	Glycosylation-dependent cell adhesion molecule 1 (milk glyicoproteinPP3)	23	%	NOSHAN
Apple	Apple pomace		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN

Olive	Olive pomace		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Gold	<0.1	ppm d.b.	NOSHAN
Cotton	Cottonseed hulls		Simple phenols	Gossypol, free	430	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Heat shock protein	4	%	NOSHAN
Apple	Apple pomace		Waste compounds	Heating value, high	18.52	MJ/kg d.b.	NOSHAN
Orange	Orange peel	Orange	Waste compounds	Heating value, high	17.87	MJ/kg d.b.	NOSHAN
Cheese	Whey	Milk	Waste compounds	Heating value, high	17.21	MJ/kg d.b.	NOSHAN

Hop	Hops		Waste compounds	Heating value, high	18.11	MJ/kg d.b.	NOSHAN
Sugar by-products, unspecified	Bagasse		Waste compounds	Heating value, high	18.1	MJ/kg d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Waste compounds	Heating value, high	17.4	MJ/kg d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Grape	Grape marc		Waste compounds	Heating value, high	21.3	MJ/kg d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Waste compounds	Heating value, high	18	MJ/kg d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Waste compounds	Heating value, high	19.7	MJ/kg d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape seeds		Waste compounds	Heating value, high	22.7	MJ/kg d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Waste compounds	Heating value, high	22	MJ/kg d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Waste compounds	Heating value, high	20.3	MJ/kg d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Tomatoes	Tomato peel		Waste compounds	Heating value, high	23.6	MJ/kg d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Waste compounds	Heating value, high	24.5	MJ/kg d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Waste compounds	Heating value, high	23	MJ/kg d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato meal		Waste compounds	Heating value, high	20.3	MJ/kg d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Waste compounds	Heating value, high	22.9	MJ/kg d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Waste compounds	Heating value, high	24	MJ/kg d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Apple	Apple cake		Waste compounds	Heating value, high	17.76	MJ/kg d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Waste compounds	Heating value, high	19.34	MJ/kg d.b.	NOSHAN

Brewer's yeast/grains, unspecified	Brewing cake		Waste compounds	Heating value, high	21.97	MJ/kg d.b.	NOSHAN
Cabbage	Cabbage		Waste compounds	Heating value, high	14.7	MJ/kg d.b.	NOSHAN
Cheese	Cheese	Hard	Waste compounds	Heating value, high	27.59	MJ/kg d.b.	NOSHAN
Cheese	Cheese	Soft	Waste compounds	Heating value, high	27.51	MJ/kg d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Waste compounds	Heating value, high	29.38	MJ/kg d.b.	NOSHAN
Grape	Grape pomace		Waste compounds	Heating value, high	20.71	MJ/kg d.b.	NOSHAN
Barley	Malted barley germs		Waste compounds	Heating value, high	18.82	MJ/kg d.b.	NOSHAN
Mushrooms	Mushrooms		Waste compounds	Heating value, high	19.82	MJ/kg d.b.	NOSHAN
Olive	Olive pomace		Waste compounds	Heating value, high	21.16	MJ/kg d.b.	NOSHAN
Onion	Onion hulls		Waste compounds	Heating value, high	17.29	MJ/kg d.b.	NOSHAN
Onion	Onion	Slices, fresh	Waste compounds	Heating value, high	14.87	MJ/kg d.b.	NOSHAN
Potato	Potato	Selected	Waste compounds	Heating value, high	17.1	MJ/kg d.b.	NOSHAN
Potato	Potato skin		Waste compounds	Heating value, high	17.15	MJ/kg d.b.	NOSHAN

Rape	Rapeseed press cake		Waste compounds	Heating value, high	20.81	MJ/kg d.b.	NOSHAN
Cabbage	Cabbage	Sour	Waste compounds	Heating value, high	14.83	MJ/kg d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Waste compounds	Heating value, high	15.92	MJ/kg d.b.	NOSHAN
Tomatoes	Tomato skin		Waste compounds	Heating value, high	22.22	MJ/kg d.b.	NOSHAN
Apple	Apple	Whole	Waste compounds	Heating value, high	17.08	MJ/kg d.b.	NOSHAN
Pears	Pear	Whole	Waste compounds	Heating value, high	17.03	MJ/kg d.b.	NOSHAN
Yoghurt	Yoghurt		Waste compounds	Heating value, high	23.44	MJ/kg d.b.	NOSHAN
Poultry	Feathers	Turkey	Waste compounds	Heating value, high	7.9	MJ/kg	Bioenergy from feathers gasification - Efficiency and performance analysis
Poultry	Feathers, dry	Turkey, dry	Waste compounds	Heating value, high	24.7	MJ/kg	Bioenergy from feathers gasification - Efficiency and performance analysis

Rice	Rice husk		Waste compounds	Heating value, high	16.3	MJ/kg	Combustion behaviour of rice husk in a bubbling fluidised bed
Olive	Olive husk		Waste compounds	Heating value, high	17.8	MJ/kg	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Waste compounds	Heating value, high	17.7	MJ/kg	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Waste compounds	Heating value, high	21.2	MJ/kg	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura

Olive	Olive husk		Waste compounds	Heating value, high	21.59	MJ/kg	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive mill wastewater		Waste compounds	Heating value, high	24.51	MJ/kg	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Grape	Grape waste		Waste compounds	Heating value, high	18.2	MJ/kg	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Coconut	Char from coconut shell	Char produced at 750°C	Waste compounds	Heating value, high	31.12	MJ/kg	ECN Phyllis 2

Grape	Char from grape residue	Residue from wine production, pyrolysis in packed bed (280-530°C deg C radial profile)	Waste compounds	Heating value, high	24.29	MJ/kg	ECN Phyllis 2
Rice	Char from rice hulls		Waste compounds	Heating value, high	8.89	MJ/kg	ECN Phyllis 2
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Waste compounds	Heating value, high	30.62	MJ/kg	ECN Phyllis 2
Grapefruit	Grapefruit skin char	GrapefuitChar produced at 700°C from grapefruit skin	Waste compounds	Heating value, high	27.29	MJ/kg	ECN Phyllis 2
Orange	Orange skin char	OrangeCarbonization under N2 for 2 hours at 700°C	Waste compounds	Heating value, high	25.55	MJ/kg	ECN Phyllis 2
Poultry	Pyrolysis char from skimmings poultry processing	600°C pyrolysis	Waste compounds	Heating value, high	19.01	MJ/kg	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Waste compounds	Heating value, high	28.73	MJ/kg	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 400/60/0. Combustion temperature: 400°C, 60 minutes, 0% oxygen	Waste compounds	Heating value, high	20.39	MJ/kg	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	Heating value, high	23.1	MJ/kg	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	Heating value, high	24.42	MJ/kg	ECN Phyllis 2
Olive	Char from olive husks	Pyrolysis in packed bed (280-530°C radial profile)	Waste compounds	Heating value, high	28.71	MJ/kg	ECN Phyllis 2
Olive	Char from olive husks		Waste compounds	Heating value, high	27.9	MJ/kg	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 623 K; S-Co2 = 305 m2/g	Waste compounds	Heating value, high	29.08	MJ/kg	ECN Phyllis 2

Olive	Char from olive pits	Char from olive stones at 873 K; S-N2 = 85 m2/g, S-CO2 = 548 m2/g	Waste compounds	Heating value, high	33.27	MJ/kg	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 1123 K; S-CO2 = 737 m2/g	Waste compounds	Heating value, high	31.73	MJ/kg	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 350°C	Waste compounds	Heating value, high	26.6	MJ/kg	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 600°C	Waste compounds	Heating value, high	29.16	MJ/kg	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 850°C	Waste compounds	Heating value, high	26.91	MJ/kg	ECN Phyllis 2
Rice	Rice straw char	Char from pyrolysis at 490°C	Waste compounds	Heating value, high	15.98	MJ/kg	ECN Phyllis 2
Straw	Straw		Waste compounds	Heating value, high	17.3	MJ/kg	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Waste compounds	Heating value, high	17.98	MJ/kg	ECN Phyllis 2

Straw	Straw pellets char	Chinese straw pellets 550 deg C	Waste compounds	Heating value, high	20.18	MJ/kg	ECN Phyllis 2
Wheat	Char from wheat straw	Char from fluid bed gasifier	Waste compounds	Heating value, high	15.65	MJ/kg	ECN Phyllis 2
Wheat	Char from wheat straw	Pyrolysis in packed bed (280-530°C radial profile)	Waste compounds	Heating value, high	20.16	MJ/kg	ECN Phyllis 2
Wheat	Wheat straw char		Waste compounds	Heating value, high	25.18	MJ/kg	ECN Phyllis 2
Sugar cane	Sugar cane trash	Ground pellets	Waste compounds	Heating value, high	16.77	MJ/kg	ECN Phyllis 2
Sugar beet	Sugar beet		Waste compounds	Heating value, high	17.7	MJ/kg	ECN Phyllis 2
Sugar cane	Sugar cane leaves	Higher heating value given as 16.000-17600 kJ/kg; in Biomass and Bioenergy 13 (1997) 141-146 it is given as 17.430 kJ/kg. The higher value may apply to dry ash-free material.	Waste compounds	Heating value, high	10.72	MJ/kg	ECN Phyllis 2

Aubergine	Aubergine plant		Waste compounds	Heating value, high	2.70	MJ/kg	ECN Phyllis 2
Bean	Bean plant		Waste compounds	Heating value, high	2.46	MJ/kg	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Waste compounds	Heating value, high	17.13	MJ/kg	ECN Phyllis 2
Courgette	Courgette plant		Waste compounds	Heating value, high	0.89	MJ/kg	ECN Phyllis 2
Cucumber	Cucumber plant		Waste compounds	Heating value, high	1.34	MJ/kg	ECN Phyllis 2
Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Waste compounds	Heating value, high	1.1	MJ/kg	ECN Phyllis 2

Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Waste compounds	Heating value, high	2.91	MJ/kg	ECN Phyllis 2
Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Waste compounds	Heating value, high	1.55	MJ/kg	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Waste compounds	Heating value, high	1.31	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Waste compounds	Heating value, high	17.23	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Waste compounds	Heating value, high	18.22	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Waste compounds	Heating value, high	17.55	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Waste compounds	Heating value, high	18.03	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Waste compounds	Heating value, high	19.38	MJ/kg	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Waste compounds	Heating value, high	19.25	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Waste compounds	Heating value, high	18.8	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Waste compounds	Heating value, high	17.26	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Waste compounds	Heating value, high	18.75	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Waste compounds	Heating value, high	18.59	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Waste compounds	Heating value, high	17.67	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Waste compounds	Heating value, high	18.79	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Waste compounds	Heating value, high	19.21	MJ/kg	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Waste compounds	Heating value, high	19.06	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Waste compounds	Heating value, high	18.16	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Waste compounds	Heating value, high	19.07	MJ/kg	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Waste compounds	Heating value, high	15.92	MJ/kg	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Waste compounds	Heating value, high	18.41	MJ/kg	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Waste compounds	Heating value, high	16.01	MJ/kg	ECN Phyllis 2
Cacao/cocoa	Cacao shells	Report JOU2-CT93-0397; data from K. Lassing, E. Olsson and L. Waldheim, TPS	Waste compounds	Heating value, high	16.99	MJ/kg	ECN Phyllis 2
Cacao/cocoa	Cacao hulls		Waste compounds	Heating value, high	19.04	MJ/kg	ECN Phyllis 2
Coconut	Coconut fibre		Waste compounds	Heating value, high	19.24	MJ/kg	ECN Phyllis 2

Coconut	Coconut shell	Coconuts shells from Madal, Mozambique	Waste compounds	Heating value, high	20.58	MJ/kg	ECN Phyllis 2
Coconut	Coconut shell		Waste compounds	Heating value, high	20.56	MJ/kg	ECN Phyllis 2
Coconut	Coconut shell		Waste compounds	Heating value, high	20.5	MJ/kg	ECN Phyllis 2
Coconut	Coconut shell		Waste compounds	Heating value, high	18.2	MJ/kg	ECN Phyllis 2
Coconut	Coconut shell	Charcoal yield 41.4% at 1 MPa, fixed-C yield 30.1%	Waste compounds	Heating value, high	20.56	MJ/kg	ECN Phyllis 2
Coconut	Coconut shell		Waste compounds	Heating value, high	17.65	MJ/kg	ECN Phyllis 2
Coconut	Coconut fibre	Coir	Waste compounds	Heating value, high	18.89	MJ/kg	ECN Phyllis 2
Coconut	Coconut fibre dust	Coir. Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Waste compounds	Heating value, high	18.2	MJ/kg	ECN Phyllis 2

Coconut	Coconut fibre dust	Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Waste compounds	Heating value, high	20.05	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 4.2% (obtained with extraction with acetone/water)	Waste compounds	Heating value, high	19.3	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 1, samples from Trabzon, Turkey	Waste compounds	Heating value, high	17.48	MJ/kg	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 2, samples from Trabzon, Turkey	Waste compounds	Heating value, high	17.49	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 3, samples from Trabzon, Turkey	Waste compounds	Heating value, high	17.23	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 4, samples from Trabzon, Turkey	Waste compounds	Heating value, high	17.25	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Waste compounds	Heating value, high	20.2	MJ/kg	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Waste compounds	Heating value, high	16.14	MJ/kg	ECN Phyllis 2

Nuts, unspecified	Nut seedcoat	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 19.6% (obtained with extraction with alcohol/benzene)	Waste compounds	Heating value, high	19.3	MJ/kg	ECN Phyllis 2
Olive	Olive		Waste compounds	Heating value, high	21.93	MJ/kg	ECN Phyllis 2
Olive	Olive		Waste compounds	Heating value, high	21.52	MJ/kg	ECN Phyllis 2
Olive	Olive		Waste compounds	Heating value, high	21.34	MJ/kg	ECN Phyllis 2
Olive	Olive cake		Waste compounds	Heating value, high	21.53	MJ/kg	ECN Phyllis 2

Olive	Olive husk	Biochemical composition on extractive free basis. Concentration of extractives: 8.1% (obtained with extraction with alcohol/benzene)	Waste compounds	Heating value, high	19	MJ/kg	ECN Phyllis 2
Olive	Olive husk	Extractives 8.1%; compositions and heating values of char and pyrolysis oil in ID = 2264 and 2265	Waste compounds	Heating value, high	20.78	MJ/kg	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Waste compounds	Heating value, high	20.9	MJ/kg	ECN Phyllis 2
Olive	Olive husk	Ash type: 815°C	Waste compounds	Heating value, high	17.83	MJ/kg	ECN Phyllis 2

Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Waste compounds	Heating value, high	20.3	MJ/kg	ECN Phyllis 2
Olive	Olive pits		Waste compounds	Heating value, high	21.39	MJ/kg	ECN Phyllis 2
Olive	Olive pits	S-N2 = 0,6 m2/g; S-CO2 = 53 m2/g; see for char 1825, 1826 and 1827	Waste compounds	Heating value, high	18.1	MJ/kg	ECN Phyllis 2
Olive	Olive pits		Waste compounds	Heating value, high	17.2	MJ/kg	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Waste compounds	Heating value, high	19.89	MJ/kg	ECN Phyllis 2
Olive	Olive residue	Oily refuse from olive processing	Waste compounds	Heating value, high	20.17	MJ/kg	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Waste compounds	Heating value, high	18.19	MJ/kg	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Waste compounds	Heating value, high	16.99	MJ/kg	ECN Phyllis 2
Olive	Olive residue		Waste compounds	Heating value, high	19.48	MJ/kg	ECN Phyllis 2
Olive	Olive waste	Country: Spain	Waste compounds	Heating value, high	16.63	MJ/kg	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Waste compounds	Heating value, high	17.53	MJ/kg	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Waste compounds	Heating value, high	18.1	MJ/kg	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Waste compounds	Heating value, high	19.23	MJ/kg	ECN Phyllis 2
Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Waste compounds	Heating value, high	20.05	MJ/kg	ECN Phyllis 2

Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Waste compounds	Heating value, high	19.16	MJ/kg	ECN Phyllis 2
Olive	Orujillo	Wood matter from pressed oil stone	Waste compounds	Heating value, high	17.65	MJ/kg	ECN Phyllis 2
Cherry	Cherry pits		Waste compounds	Heating value, high	21.75	MJ/kg	ECN Phyllis 2
Cherry	Cherry pits		Waste compounds	Heating value, high	21.55	MJ/kg	ECN Phyllis 2
Coffee	Coffee husk		Waste compounds	Heating value, high	12.84	MJ/kg	ECN Phyllis 2
Coffee	Coffee husk		Waste compounds	Heating value, high	18.93	MJ/kg	ECN Phyllis 2
Peach	Peach pits		Waste compounds	Heating value, high	20.82	MJ/kg	ECN Phyllis 2
Peach	Peach pits		Waste compounds	Heating value, high	19.42	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Waste compounds	Heating value, high	18.22	MJ/kg	ECN Phyllis 2

Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Waste compounds	Heating value, high	18.21	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Waste compounds	Heating value, high	19.26	MJ/kg	ECN Phyllis 2
Prunes	Prune pits		Waste compounds	Heating value, high	13.34	MJ/kg	ECN Phyllis 2
Prunes	Prune pits		Waste compounds	Heating value, high	23.28	MJ/kg	ECN Phyllis 2
Apricot	Apricot stones	Apricot stones as waste product of canning industry, Bulgaria	Waste compounds	Heating value, high	19.47	MJ/kg	ECN Phyllis 2
Babassu	Babassu husks		Waste compounds	Heating value, high	19.92	MJ/kg	ECN Phyllis 2
Coffee	Coffee husk	Parchment	Waste compounds	Heating value, high	14.9	MJ/kg	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Waste compounds	Heating value, high	17	MJ/kg	ECN Phyllis 2
Grape	Grape seeds		Waste compounds	Heating value, high	21.29	MJ/kg	ECN Phyllis 2

Nuts, unspecified	Nut shells	Kukui. Charcoal yield 58.6% at 1 MPa, fixed-C yield 41.4%	Waste compounds	Heating value, high	21.8	MJ/kg	ECN Phyllis 2
Lemon	Lemon pellets	Lemon. Ash type: 815°C	Waste compounds	Heating value, high	14.63	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Waste compounds	Heating value, high	26.64	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia	Waste compounds	Heating value, high	21.02	MJ/kg	ECN Phyllis 2
Millet	Millet husk		Waste compounds	Heating value, high	17.4	MJ/kg	ECN Phyllis 2
Mustard	Mustard husk		Waste compounds	Heating value, high	20.34	MJ/kg	ECN Phyllis 2
Rice	Rice husk	Before soaking pre-treatment	Waste compounds	Heating value, higher	4053	kcal/kg	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Rice	Rice husk, dried	Soaked rice husks, dried	Waste compounds	Heating value, higher	3992	kcal/kg	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Apple	Apple pomace		Waste compounds	Heating value, low	16.96	MJ/kg d.b.	NOSHAN
Orange	Orange peel	Orange	Waste compounds	Heating value, low	16.55	MJ/kg d.b.	NOSHAN
Cheese	Whey	Milk	Waste compounds	Heating value, low	15.56	MJ/kg d.b.	NOSHAN
Hop	Hops		Waste compounds	Heating value, low	16.81	MJ/kg d.b.	NOSHAN

Sugar by-products, unspecified	Bagasse		Waste compounds	Heating value, low	7.2	MJ/kg d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Waste compounds	Heating value, low	13.3	MJ/kg d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Grape	Grape marc		Waste compounds	Heating value, low	20.1	MJ/kg d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Waste compounds	Heating value, low	16.8	MJ/kg d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Waste compounds	Heating value, low	18.4	MJ/kg d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape seeds		Waste compounds	Heating value, low	21.2	MJ/kg d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Waste compounds	Heating value, low	20.8	MJ/kg d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Waste compounds	Heating value, low	19.1	MJ/kg d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Tomatoes	Tomato peel		Waste compounds	Heating value, low	21.9	MJ/kg d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Waste compounds	Heating value, low	22.7	MJ/kg d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Waste compounds	Heating value, low	21.4	MJ/kg d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato meal		Waste compounds	Heating value, low	18.8	MJ/kg d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Waste compounds	Heating value, low	21.3	MJ/kg d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Waste compounds	Heating value, low	22.3	MJ/kg d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Apple	Apple cake		Waste compounds	Heating value, low	16.47	MJ/kg d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Waste compounds	Heating value, low	17.89	MJ/kg d.b.	NOSHAN

Brewer's yeast/grains, unspecified	Brewing cake		Waste compounds	Heating value, low	20.4	MJ/kg d.b.	NOSHAN
Cabbage	Cabbage		Waste compounds	Heating value, low	13.47	MJ/kg d.b.	NOSHAN
Cheese	Cheese	Hard	Waste compounds	Heating value, low	27.27	MJ/kg d.b.	NOSHAN
Cheese	Cheese	Soft	Waste compounds	Heating value, low	26.39	MJ/kg d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Waste compounds	Heating value, low	27.94	MJ/kg d.b.	NOSHAN
Grape	Grape pomace		Waste compounds	Heating value, low	19.17	MJ/kg d.b.	NOSHAN
Barley	Malted barley germs		Waste compounds	Heating value, low	17.43	MJ/kg d.b.	NOSHAN
Mushrooms	Mushrooms		Waste compounds	Heating value, low	18.2	MJ/kg d.b.	NOSHAN
Olive	Olive pomace		Waste compounds	Heating value, low	19.56	MJ/kg d.b.	NOSHAN
Onion	Onion hulls		Waste compounds	Heating value, low	16.01	MJ/kg d.b.	NOSHAN
Onion	Onion	Slices, fresh	Waste compounds	Heating value, low	13.76	MJ/kg d.b.	NOSHAN
Potato	Potato	Selected	Waste compounds	Heating value, low	15.78	MJ/kg d.b.	NOSHAN
Potato	Potato skin		Waste compounds	Heating value, low	15.83	MJ/kg d.b.	NOSHAN

Rape	Rapeseed press cake		Waste compounds	Heating value, low	19.28	MJ/kg d.b.	NOSHAN
Cabbage	Cabbage	Sour	Waste compounds	Heating value, low	13.59	MJ/kg d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Waste compounds	Heating value, low	14.55	MJ/kg d.b.	NOSHAN
Tomatoes	Tomato skin		Waste compounds	Heating value, low	20.55	MJ/kg d.b.	NOSHAN
Apple	Apple	Whole	Waste compounds	Heating value, low	15.51	MJ/kg d.b.	NOSHAN
Pears	Pear	Whole	Waste compounds	Heating value, low	15.42	MJ/kg d.b.	NOSHAN
Yoghurt	Yoghurt		Waste compounds	Heating value, low	21.62	MJ/kg d.b.	NOSHAN
Rice	Rice husk	Variety: Lemont LG	Waste compounds	Heating value, low	14.22	MJ/kg d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravimetric analysis
Rice	Rice husk	Variety: ROK 14	Waste compounds	Heating value, low	13.24	MJ/kg d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravimetric analysis

Rice	Rice husk	Variety: CP4	Waste compounds	Heating value, low	13.4	MJ/kg d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: Pa Potho	Waste compounds	Heating value, low	14.12	MJ/kg d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Poultry	Feathers	Turkey	Waste compounds	Heating value, low	5.31	MJ/kg	Bioenergy from feathers gasification - Efficiency and performance analysis
Poultry	Feathers, dry	Turkey, dry	Waste compounds	Heating value, low	23.4	MJ/kg	Bioenergy from feathers gasification - Efficiency and performance analysis
Rice	Rice husk		Waste compounds	Heating value, low	15	MJ/kg	Combustion behaviour of rice husk in a bubbling fluidised bed

Olive	Olive husk		Waste compounds	Heating value, low	15.58	MJ/kg	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Waste compounds	Heating value, low	16.2	MJ/kg	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive mill wastewater		Waste compounds	Heating value, low	23.49	MJ/kg	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Grape	Grape waste		Waste compounds	Heating value, low	16.37	MJ/kg	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Coconut	Char from coconut shell	Char produced at 750°C	Waste compounds	Heating value, low	30.96	MJ/kg	ECN Phyllis 2

Olive	Char from olive husks		Waste compounds	Heating value, low	26.76	MJ/kg	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Waste compounds	Heating value, low	17.37	MJ/kg	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Waste compounds	Heating value, low	19.87	MJ/kg	ECN Phyllis 2
Wheat	Char from wheat straw	Char from fluid bed gasifier	Waste compounds	Heating value, low	15.26	MJ/kg	ECN Phyllis 2
Wheat	Wheat straw char		Waste compounds	Heating value, low	24.59	MJ/kg	ECN Phyllis 2
Sugar cane	Sugar cane trash	Ground pellets	Waste compounds	Heating value, low	15.52	MJ/kg	ECN Phyllis 2
Sugar beet	Sugar beet		Waste compounds	Heating value, low	16.6	MJ/kg	ECN Phyllis 2
Sugar cane	Sugar cane leaves	Higher heating value given as 16.000-17600 kJ/kg; in Biomass and Bioenergy 13 (1997) 141-146 it is given as 17.430 kJ/kg. The higher value may apply to dry ash-free material.	Waste compounds	Heating value, low	9.11	MJ/kg	ECN Phyllis 2

Aubergine	Aubergine plant		Waste compounds	Heating value, low	0.50	MJ/kg	ECN Phyllis 2
Bean	Bean plant		Waste compounds	Heating value, low	0.22	MJ/kg	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Waste compounds	Heating value, low	15.72	MJ/kg	ECN Phyllis 2
Cucumber	Cucumber plant		Waste compounds	Heating value, low	-0.93	MJ/kg	ECN Phyllis 2
Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Waste compounds	Heating value, low	-1.22	MJ/kg	ECN Phyllis 2

Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Waste compounds	Heating value, low	0.76	MJ/kg	ECN Phyllis 2
Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Waste compounds	Heating value, low	-0.73	MJ/kg	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Waste compounds	Heating value, low	-1.01	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Waste compounds	Heating value, low	15.84	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Waste compounds	Heating value, low	17.05	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Waste compounds	Heating value, low	16.16	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Waste compounds	Heating value, low	18.08	MJ/kg	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Waste compounds	Heating value, low	17.49	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Waste compounds	Heating value, low	15.74	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Waste compounds	Heating value, low	17.56	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Waste compounds	Heating value, low	17.29	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Waste compounds	Heating value, low	16.29	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Waste compounds	Heating value, low	17.49	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Waste compounds	Heating value, low	17.93	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Waste compounds	Heating value, low	17.8	MJ/kg	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Waste compounds	Heating value, low	16.77	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Waste compounds	Heating value, low	17.77	MJ/kg	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Waste compounds	Heating value, low	14.6	MJ/kg	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Waste compounds	Heating value, low	16.37	MJ/kg	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Waste compounds	Heating value, low	14.71	MJ/kg	ECN Phyllis 2
Cacao/cocoa	Cacao shells	Report JOU2-CT93-0397; data from K. Lassing, E. Olsson and L. Waldheim, TPS	Waste compounds	Heating value, low	15.68	MJ/kg	ECN Phyllis 2
Cacao/cocoa	Cacao hulls		Waste compounds	Heating value, low	17.9	MJ/kg	ECN Phyllis 2
Coconut	Coconut shell		Waste compounds	Heating value, low	19.26	MJ/kg	ECN Phyllis 2
Coconut	Coconut shell		Waste compounds	Heating value, low	16.21	MJ/kg	ECN Phyllis 2
Coconut	Coconut fibre	Coir	Waste compounds	Heating value, low	17.79	MJ/kg	ECN Phyllis 2

Coconut	Coconut fibre dust	Coir. Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Waste compounds	Heating value, low	16.77	MJ/kg	ECN Phyllis 2
Coconut	Coconut fibre dust	Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Waste compounds	Heating value, low	18.95	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 1, samples from Trabzon, Turkey	Waste compounds	Heating value, low	16.11	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 2, samples from Trabzon, Turkey	Waste compounds	Heating value, low	16.06	MJ/kg	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 3, samples from Trabzon, Turkey	Waste compounds	Heating value, low	15.8	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 4, samples from Trabzon, Turkey	Waste compounds	Heating value, low	15.85	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Waste compounds	Heating value, low	18.85	MJ/kg	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Waste compounds	Heating value, low	14.7	MJ/kg	ECN Phyllis 2

Nuts, unspecified	Nut seedcoat	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 19.6% (obtained with extraction with alcohol/benzene)	Waste compounds	Heating value, low	18.14	MJ/kg	ECN Phyllis 2
Olive	Olive		Waste compounds	Heating value, low	20.57	MJ/kg	ECN Phyllis 2
Olive	Olive		Waste compounds	Heating value, low	20.2	MJ/kg	ECN Phyllis 2
Olive	Olive		Waste compounds	Heating value, low	19.96	MJ/kg	ECN Phyllis 2
Olive	Olive husk	Biochemical composition on extractive free basis. Concentration of extractives: 8.1% (obtained with extraction with alcohol/benzene)	Waste compounds	Heating value, low	17.7	MJ/kg	ECN Phyllis 2

Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Waste compounds	Heating value, low	19.44	MJ/kg	ECN Phyllis 2
Olive	Olive husk	Ash type: 815°C	Waste compounds	Heating value, low	16.05	MJ/kg	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Waste compounds	Heating value, low	18.78	MJ/kg	ECN Phyllis 2
Olive	Olive pits		Waste compounds	Heating value, low	20.03	MJ/kg	ECN Phyllis 2
Olive	Olive pits		Waste compounds	Heating value, low	15.81	MJ/kg	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Waste compounds	Heating value, low	20.54	MJ/kg	ECN Phyllis 2
Olive	Olive residue	Oily refuse from olive processing	Waste compounds	Heating value, low	20.17	MJ/kg	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Waste compounds	Heating value, low	16.65	MJ/kg	ECN Phyllis 2

Olive	Olive waste	Country: Spain	Waste compounds	Heating value, low	15.26	MJ/kg	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Waste compounds	Heating value, low	16	MJ/kg	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Waste compounds	Heating value, low	16.73	MJ/kg	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Waste compounds	Heating value, low	17.82	MJ/kg	ECN Phyllis 2

Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Waste compounds	Heating value, low	18.7	MJ/kg	ECN Phyllis 2
Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Waste compounds	Heating value, low	17.8	MJ/kg	ECN Phyllis 2

Coffee	Coffee husk		Waste compounds	Heating value, low	17.56	MJ/kg	ECN Phyllis 2
Peach	Peach pits		Waste compounds	Heating value, low	19.53	MJ/kg	ECN Phyllis 2
Peach	Peach pits		Waste compounds	Heating value, low	18.04	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Waste compounds	Heating value, low	16.76	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Waste compounds	Heating value, low	16.76	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Waste compounds	Heating value, low	17.97	MJ/kg	ECN Phyllis 2
Prunes	Prune pits		Waste compounds	Heating value, low	11.57	MJ/kg	ECN Phyllis 2
Prunes	Prune pits		Waste compounds	Heating value, low	21.99	MJ/kg	ECN Phyllis 2
Babassu	Babassu husks		Waste compounds	Heating value, low	18.75	MJ/kg	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Waste compounds	Heating value, low	15.56	MJ/kg	ECN Phyllis 2
Lemon	Lemon pellets	Lemon. Ash type: 815°C	Waste compounds	Heating value, low	13.12	MJ/kg	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia	Waste compounds	Heating value, low	19.93	MJ/kg	ECN Phyllis 2

Millet	Millet husk		Waste compounds	Heating value, low	16.08	MJ/kg	ECN Phyllis 2
Grape	Grape marc		Waste compounds	Heating value, net	7	MJ/kg	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Waste compounds	Heating value, net	3.5	MJ/kg	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape peels		Waste compounds	Heating value, net	5.7	MJ/kg	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape seeds		Waste compounds	Heating value, net	9.8	MJ/kg	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Waste compounds	Heating value, net	19.9	MJ/kg	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape meal	Extraction meal	Waste compounds	Heating value, net	16	MJ/kg	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato peel		Waste compounds	Heating value, net	20.6	MJ/kg	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Waste compounds	Heating value, net	20.8	MJ/kg	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato cake		Waste compounds	Heating value, net	20.5	MJ/kg	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato meal		Waste compounds	Heating value, net	16.6	MJ/kg	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Waste compounds	Heating value, net	19.6	MJ/kg	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato residues	Wet	Waste compounds	Heating value, net	4.2	MJ/kg	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Apple	Apple pomace	Malus domestica	Proximates	Hemicellulose	4.3	% DM	Fruit waste as feed paper
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Hemicellulose	2	% DM	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lucopersicum	Proximates	Hemicellulose	9.0-12.0	% DM	Vegetable waste as animal feed paper
Sugar beet	Sugar beet pulp	Beta vulgaris	Proximates	Hemicellulose	22.7	% DM	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Hemicellulose	21.2	% DM	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace/marc	Namily vitaceae	Proximates	Hemicellulose	3.1-8	% DM	Fruit waste as feed paper
Grape	Grape vine shoot	Vitis vinifera	Proximates	Hemicellulose	23	% DM	Fruit waste as feed paper

Olive	Olive stones	Crude	Proximates	Hemicellulose	32.2	% DM	Adsorption of iron on crude olive stones
Olive	Olive tree pruning	Biomass	Proximates	Hemicellulose	17.5	% DM	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Hemicellulose	8.1	% DM	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Hemicellulose	11.1	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Proximates	Hemicellulose	1	% DM	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Hemicellulose	2	% DM	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Proximates	Hemicellulose	4.3	% DM	Utilization of fruit and vegetable wastes, FAO

Grape	Grape pomace	Namily vitaceae	Proximates	Hemicellulose	3.1-5.4	% DM	Utilization of fruit and vegetable wastes, FAO
Pineapple	Pineapple bran	Ananas comosus	Proximates	Hemicellulose	36	% DM	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Hemicellulose	12	% DM	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Hemicellulose	10.5	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Proximates	Hemicellulose	23.6	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Hemicellulose	3.1	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Hemicellulose	4	% DM	Utilization of fruit and vegetable wastes, FAO

Carrot	Carrot	Daucus carota	Proximates	Hemicellulose	1	% DM	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Proximates	Hemicellulose	4	% DM	Vegetable waste as animal feed paper
Cucumber	Cucumber	Cucumis sativus	Proximates	Hemicellulose	14.3	% DM	Vegetable waste as animal feed paper
Cucumber	Cucumber peel	Cucumis sativus	Proximates	Hemicellulose	14.2	% DM	Vegetable waste as animal feed paper
Food, unspecified	Grocery by-product waste	Fruits, vegetables and bakery items from retail grocery stores	Proximates	Hemicellulose	3.9	% DM	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Proximates	Hemicellulose	14.2	% DM	Vegetable waste as animal feed paper
Tomatoes	Tomato	L.esculentum	Proximates	Hemicellulose	4.3-14.1	% DM	Vegetable waste as animal feed paper

Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Hemicellulose	9-12	% DM	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Proximates	Hemicellulose	11.1	% DM	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Proximates	Hemicellulose	8.1	% DM	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Hemicellulose	21.2	% DM	Vegetable waste as animal feed paper
Rice	Rice husk	Variety: Lemont LG	Proximates	Hemicellulose	20.1	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: ROK 14	Proximates	Hemicellulose	21.03	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis

Rice	Rice husk	Variety: CP4	Proximates	Hemicellulose	18.1	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: Pa Potho	Proximates	Hemicellulose	21.35	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Wheat	Wheat	Whole crop. Flowering cultivar Phelivan	Proximates	Hemicellulose	13.4	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Phelivan	Proximates	Hemicellulose	15.2	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Dough cultivar Phelivan	Proximates	Hemicellulose	15	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Flowering cultivar Gonen	Proximates	Hemicellulose	16	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Gonen	Proximates	Hemicellulose	18.6	% DM	ECN Phyllis 2

Wheat	Wheat	Whole crop. Dough cultivar Gonen	Proximates	Hemicellulose	17.9	% DM	ECN Phyllis 2
Banana	Banana pintoza		Proximates	Hemicellulose	17.8	% DM	ECN Phyllis 2
Hop	Hops		Proximates	Hemicellulose	17.1	% DM	ECN Phyllis 2
Hop	Hops	Bast	Proximates	Hemicellulose	6.7	% DM	ECN Phyllis 2
Pineapple	Pineapple		Proximates	Hemicellulose	13.85	% DM	ECN Phyllis 2
Sugar cane	Sugar cane		Proximates	Hemicellulose	17	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Proximates	Hemicellulose	30.6	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Proximates	Hemicellulose	27	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Proximates	Hemicellulose	28.9	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Hemicellulose	16.2	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Hemicellulose	14.3	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Hemicellulose	15.2	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Hemicellulose	15.1	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Hemicellulose	17.51	% DM	ECN Phyllis 2

Coconut	Coconut fibre		Proximates	Hemicellulose	18.4	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Hemicellulose	13.6	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Hemicellulose	11.7	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Hemicellulose	14.1	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Hemicellulose	11.9	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Hemicellulose	15.9	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Hemicellulose	14.5	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Hemicellulose	13	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Hemicellulose	5.4	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Hemicellulose	11.9	% DM	ECN Phyllis 2
Coconut	Coconut shell	Coconuts shells from Madal, Mozambique	Proximates	Hemicellulose	48.8	% DM	ECN Phyllis 2
Coconut	Coconut shell	Charcoal yield 41.4% at 1 MPa, fixed-C yield 30.1%	Proximates	Hemicellulose	24.7	% DM	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Hemicellulose	24.54	% DM	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 4.2% (obtained with extraction with acetone/water)	Proximates	Hemicellulose	29.9	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Proximates	Hemicellulose	30.4	% DM	ECN Phyllis 2
Nuts, unspecified	Nut seedcoat	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 19.6% (obtained with extraction with alcohol/benzene)	Proximates	Hemicellulose	15.7	% DM	ECN Phyllis 2

Olive	Olive cake		Proximates	Hemicellulose	20.28	% DM	ECN Phyllis 2
Olive	Olive husk	Biochemical composition on extractive free basis. Concentration of extractives: 8.1% (obtained with extraction with alcohol/benzene)	Proximates	Hemicellulose	23.6	% DM	ECN Phyllis 2
Olive	Olive husk		Proximates	Hemicellulose	33	% DM	ECN Phyllis 2
Olive	Olive husk	Extractives 8.1%; compositions and heating values of char and pyrolysis oil in ID = 2264 and 2265	Proximates	Hemicellulose	21.1	% DM	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Proximates	Hemicellulose	23.6	% DM	ECN Phyllis 2

Olive	Olive pits	Ethanol/benzene extractives 1.5%, alpha-cellulose 28%, pentosan 18.5%	Proximates	Hemicellulose	37.2	% DM	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Hemicellulose	36	% DM	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Hemicellulose	25.2	% DM	ECN Phyllis 2
Apricot	Apricot stones	Apricot stones as waste product of canning industry, Bulgaria	Proximates	Hemicellulose	28.00	% DM	ECN Phyllis 2
Corn	Corn bran		Proximates	Hemicellulose	44	% DM	ECN Phyllis 2
Cotton	Cottonseed hulls		Proximates	Hemicellulose	17	% DM	ECN Phyllis 2
Cotton	Cottonseed	Black	Proximates	Hemicellulose	9	% DM	ECN Phyllis 2
Cotton	Cottonseed	High lint	Proximates	Hemicellulose	10	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Proximates	Hemicellulose	17.8	% DM	ECN Phyllis 2
Millet	Millet husk		Proximates	Hemicellulose	26.9	% DM	ECN Phyllis 2

Olive	Olive tree pruning		Proximates	Hemicellulose	25	%	Biorefining of olive tree (Olea europea) pruning
Olive	Olive tree pruning	Solid fraction from organosolv pretreatment	Proximates	Hemicellulose	17.7	%	Biorefining of olive tree (Olea europea) pruning
Olive	Olive tree pruning	Solid fraction after bioethanol production	Proximates	Hemicellulose	8.2	%	Biorefining of olive tree (Olea europea) pruning
Banana	Banana		Proximates	Hemicellulose	0.77	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sugar cane	Sugar cane bagasse		Proximates	Hemicellulose	16.52	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil

Sponge gourd	Sponge gourd fibers		Proximates	Hemicellulose	17.44	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Beef	Rumen content	Abattoir waste	Proximates	Hemicellulose	37.8	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Hemicellulose	43.22	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Hemicellulose	11.8	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Grape	Grape stalks		Proximates	Hemicellulose	21	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Babassu	Babassu cake		Proximates	Hemicellulose	16.07	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Canola	Canola cake		Proximates	Hemicellulose	2.04	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Castor	Castor seed cake		Proximates	Hemicellulose	4.36	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower cake		Proximates	Hemicellulose	4.42	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Apple	Apple		Proximates	Hemicellulose	0.029	g/g volatile solids	Cropgen database
Banana	Banana		Proximates	Hemicellulose	0.133	g/g volatile solids	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: vegetative stage+root	Proximates	Hemicellulose	0.11	g/g volatile solids	Cropgen database

Carrot	Carrot		Proximates	Hemicellulose	0.085	g/g volatile solids	Cropgen database
Rape	Oil seed rape	Brassica napus, growth stage at harvest: reproductive stage (pod filled)	Proximates	Hemicellulose	0.15	g/g volatile solids	Cropgen database
Orange	Orange		Proximates	Hemicellulose	0.045	g/g volatile solids	Cropgen database
Potato	Potato		Proximates	Hemicellulose	0.295	g/g volatile solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: pasty	Proximates	Hemicellulose	29.5	% total solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: milky	Proximates	Hemicellulose	29.5	% total solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: flowering	Proximates	Hemicellulose	29.5	% total solids	Cropgen database
Pears	Pear pomace		Proximates	Hemicellulose	202.2	g/kg DM	Comparative study of alkaline extraction process of hemicelluloses from pear pomace

Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Hemicellulose	64	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Hemicellulose	116	g/kg DM	Nutritive value of plantain and chicory for pigs
Apple	Apple pomace, dried		Proximates	Hemicellulose	24.4	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Potato	Potato peel		Proximates	Hemicellulose	11.7	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Tomatoes	Tomato pomace		Proximates	Hemicellulose	11	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals

Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Proximates	Hemicellulose	22.61	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Proximates	Hemicellulose	22.60	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rape	Rape straw	490 fully ripe rape straw samples collected in China	Proximates	Hemicellulose	16.53	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Proximates	Hemicellulose	12.70	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Potato	Potato peel	A review of different publications	Proximates	Hemicellulose	347	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	A review of different publications	Proximates	Hemicellulose	227	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Rice	Rice husk		Waste compounds	Hemisphere temperature	1575	°C	Combustion behaviour of rice husk in a bubbling fluidised bed

Wheat	Wheat straw		Waste compounds	Hemisphere temperature	1300-1400	°C	Combustion behaviour of rice husk in a bubbling fluidised bed
Sugar beet	Sugar beet		Waste compounds	Hemisphere temperature	1600	°C	ECN Phyllis 2
Aubergine	Aubergine plant		Waste compounds	Hemisphere temperature	1650	°C	ECN Phyllis 2
Bean	Bean plant		Waste compounds	Hemisphere temperature	1650	°C	ECN Phyllis 2
Courgette	Courgette plant		Waste compounds	Hemisphere temperature	1650	°C	ECN Phyllis 2
Cucumber	Cucumber plant		Waste compounds	Hemisphere temperature	1650	°C	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Waste compounds	Hemisphere temperature	1650	°C	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Waste compounds	Hemisphere temperature	1650	°C	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Waste compounds	Hemisphere temperature	860	°C	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Waste compounds	Hemisphere temperature	1150	°C	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Waste compounds	Hemisphere temperature	1190	°C	ECN Phyllis 2

Cotton	Cottonseed husks	Israel	Waste compounds	Hemisphere temperature	1400	°C	ECN Phyllis 2
Millet	Millet husk		Waste compounds	Hemisphere temperature	1370	°C	ECN Phyllis 2
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Waste compounds	Hexane	100	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Waste compounds	Hexane	73	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Waste compounds	Higher Heating Value (HHV)	16.05	MJ/kg	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Waste compounds	Higher Heating Value (HHV)	15.39	MJ/kg	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rape	Rape straw	490 fully ripe rape straw samples collected in China	Waste compounds	Higher Heating Value (HHV)	15.77	MJ/kg	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Waste compounds	Higher Heating Value (HHV)	17.36	MJ/kg	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Apple	Apple cake		Undesirable components	Histamine	<1	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Undesirable components	Histamine	<1	mg/kg	NOSHAN

Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Histamine	<1	mg/kg	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Histamine	31.6	mg/kg	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Histamine	<1	mg/kg	NOSHAN
Cheese	Cheese	Soft and hard	Undesirable components	Histamine	4.6	mg/kg	NOSHAN
Cucumber	Cucumber	Sour	Undesirable components	Histamine	16.2	mg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Histamine	3.6	mg/kg	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	Histamine	136.5	mg/kg	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Histamine	<1	mg/kg	NOSHAN
Fish, unspecified	Fish	Raw, fresh	Undesirable components	Histamine	<30	µg/g	Alternate protein sources for salmon and trout diets
Fish, unspecified	Fish	Raw, moderately fresh	Undesirable components	Histamine	440	µg/g	Alternate protein sources for salmon and trout diets

Fish, unspecified	Fish	Raw, stale	Undesirable components	Histamine	830	µg/g	Alternate protein sources for salmon and trout diets
Apple	Apple pomace		Proximates	Histidine	0.82	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Histidine	2.27	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Histidine	1.85	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Histidine	3.97	mg/g dry matter	NOSHAN
Canola	Canola meal		Proximates	Histidine	8.8	mg/g dry matter	A comparative study on amino acid availability of moist heated canla meal for poultry vs. ruminants
Apple	Apple cake		Proximates	Histidine	0.45	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Histidine	6.85	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Histidine	5.5	mg/g dry matter	NOSHAN

Cabbage	Cabbage		Proximates	Histidine	0.8	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Histidine	11.58	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Histidine	9.22	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Histidine	17.59	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Histidine	1.89	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Histidine	2.46	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Histidine	4.54	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Histidine	6.27	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Histidine	6.75	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Histidine	0.72	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Histidine	1.1	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Histidine	0.31	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Histidine	1.18	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Histidine	1.08	mg/g dry matter	NOSHAN

Rape	Rapeseed press cake		Proximates	Histidine	7.79	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Histidine	1.09	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Histidine	3.42	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Histidine	0.52	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Histidine	0	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Histidine	0.57	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Histidine	5.81	mg/g dry matter	NOSHAN
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Histidine	1.03	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Histidine	5.06	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Canola	Canola meal	Average of analysed values	Proximates	Histidine	11.7	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities

Rape	Rapeseed hulls	Purified	Proximates	Histidine	3	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Fish, unspecified	Fish meal		Proximates	Histidine	20	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Histidine	12.1	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Histidine	11.8	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Histidine	9.5	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Histidine	9.2	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Cabbage	Cabbage meal		Proximates	Histidine	2	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Citrus, unspecified	Citrus pulp, dried		Proximates	Histidine	1.30	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Histidine	1.0	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Histidine	10.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Histidine	9.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Histidine	9.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Histidine	10.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Histidine	9.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Histidine	10.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Histidine	9.7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Histidine	9.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Histidine	10.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Histidine	10.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Histidine	7.37	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Histidine	8.25	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Canola	Juncea canola meal		Proximates	Histidine	10	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Histidine	5.04	% of protein	Chemical characterizatio n of tomato pomace

Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Histidine	0.58	% of protein	Chemical characterizatio n of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Histidine	1.95	% of protein	Chemical characterizatio n of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Histidine	1.65	% of protein	Chemical characterizatio n of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Histidine	1.6	% of protein	Feedipedia
Wheat	Triticale grain		Proximates	Histidine	2.3	% of protein	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Histidine	0.9	% of protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Histidine	2.7	% of protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Histidine	2	% of protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Histidine	1.8	% of protein	Feedipedia

Rice	Rice grain	Polished	Proximates	Histidine	2.6	% of protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Histidine	2.2	% of protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Histidine	1.9	% of protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Histidine	2.7	% of protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Histidine	2.4	% of protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Histidine	2.5	% of protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Histidine	2.4	% of protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Histidine	2.6	% of protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Histidine	2.6	% of protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Histidine	2.4	% of protein	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Histidine	2.5	% of protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Histidine	2.3	% of protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Histidine	2.4	% of protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Histidine	2.2	% of protein	Feedipedia

Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Histidine	2.5	% of protein	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Histidine	1.4	% of protein	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Histidine	1.6	% of protein	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Histidine	2.9	% of protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Histidine	2.3	% of protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Histidine	2.3	% of protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Histidine	2.4	% of protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Histidine	2.1	% of protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Histidine	2	% of protein	Feedipedia
Wheat	Wheat bran		Proximates	Histidine	2.7	% of protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Histidine	2.1	% of protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Histidine	2.1	% of protein	Feedipedia
Wheat	Wheat germs		Proximates	Histidine	2.1	% of protein	Feedipedia
Wheat	Wheat grain		Proximates	Histidine	2.3	% of protein	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Histidine	2.3	% of protein	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Histidine	2	% of protein	Feedipedia

Castor	Castor oil meal	Ricinus communis	Proximates	Histidine	1.7	% of protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Histidine	2.6	% of protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Histidine	1.9	% of protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Histidine	1.4	% of protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Histidine	2.9	% of protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Histidine	2.9	% of protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Histidine	3.2	% of protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Histidine	2.9	% of protein	Feedipedia
Grape	Grape seeds		Proximates	Histidine	1.5	% of protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Histidine	2.5	% of protein	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Histidine	2.7	% of protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Histidine	2.4	% of protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Histidine	2.9	% of protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Histidine	2.8	% of protein	Feedipedia

Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Histidine	3	% of protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Histidine	3.5	% of protein	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Histidine	2.5	% of protein	Feedipedia
Palm	Oil palm kernels		Proximates	Histidine	2.5	% of protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Histidine	2.1	% of protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Histidine	2.2	% of protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Histidine	1.4	% of protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Histidine	2.3	% of protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Histidine	2	% of protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Histidine	2.4	% of protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Histidine	2.4	% of protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Histidine	2.3	% of protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Histidine	2.5	% of protein	Feedipedia

Nuts, unspecified	Nut skins	Peanut	Proximates	Histidine	3	% of protein	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Histidine	1.8	% of protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Histidine	0.4	% of protein	Feedipedia
Pumpkin	Pumpkin seeds	Cucurbita sp.	Proximates	Histidine	2.1	% of protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Histidine	2.6	% of protein	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Histidine	2.8	% of protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Histidine	2.7	% of protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Histidine	2.9	% of protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Histidine	2.4	% of protein	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Histidine	2	% of protein	Feedipedia

Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Histidine	2.6	% of protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Histidine	2.8	% of protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Histidine	2.3	% of protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Histidine	2.3	% of protein	Feedipedia
Soy	Soybean hulls		Proximates	Histidine	2.5	% of protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Histidine	2.6	% of protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Histidine	2.7	% of protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Histidine	2.7	% of protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Histidine	2.6	% of protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Histidine	2.5	% of protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Histidine	2.5	% of protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Histidine	2.8	% of protein	Feedipedia
Sunflower	Sunflower screenings		Proximates	Histidine	3	% of protein	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Histidine	2.4	% of protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Histidine	2.5	% of protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Histidine	2.5	% of protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Histidine	2.4	% of protein	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Histidine	1.9	% of protein	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Histidine	1.6	% of protein	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Histidine	3.1	% of protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Histidine	3.1	% protein	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Histidine	0.7	% of protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Histidine	2.3	% of protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Histidine	0.8	% of protein	Feedipedia

Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Histidine	1	% of protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Histidine	2.5	% of protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Histidine	1.6	% of protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Histidine	1.2	% of protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Histidine	1.1	% of protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Histidine	2.7	% of protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Histidine	2.3	% of protein	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Histidine	1	% of protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Histidine	1.1	% of protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Histidine	0.5	% of protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Histidine	2	% of protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Histidine	1.6	% of protein	Feedipedia

Sugar beet	Sugar beet pulp		Proximates	Histidine	3	% of protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Histidine	2	% of protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Histidine	3.5	% of protein	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Histidine	0.7	% of protein	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Histidine	1.7	% of protein	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Histidine	1.4	% of protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Histidine	2	% of protein	Feedipedia
Potato	Sweet potato leaf protein concentrate		Proximates	Histidine	1.6	% of protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Histidine	3.4	% of protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Histidine	3	% of protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Histidine	0.3	% of protein	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Histidine	4.3	% of protein	Feedipedia

Date	Date palm pits	Phoenix dactylifera	Proximates	Histidine	1.5	% of protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Histidine	0.4	% of protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Histidine	0.1	% of protein	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Histidine	0.5	% of protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Histidine	1.5	% of protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Histidine	6.2	% of protein	Feedipedia
Animal by-products, unspecified	Blood meal	Chicken	Proximates	Histidine	4.9	% of protein	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Histidine	1	% of protein	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Histidine	2.9	% of protein	Feedipedia
Poultry	Feather meal		Proximates	Histidine	0.8	% of protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Histidine	2.2	% of protein	Feedipedia

Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Histidine	2.4	% of protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Histidine	2.4	% of protein	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Histidine	2.2	% of protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Histidine	2.7	% of protein	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Histidine	2.5	% of protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Histidine	2.4	% of protein	Feedipedia
Poultry	Hatchery by product		Proximates	Histidine	2	% of protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Histidine	1.2	% of protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Histidine	0.5	% of protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Histidine	0.6	% of protein	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Histidine	2.5	% of protein	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Histidine	2.5	% of protein	Feedipedia

Animal by-products, unspecified	Liver meal	Poultry	Proximates	Histidine	2.5	% of protein	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Histidine	1.5	% of protein	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Histidine	5	% of protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Histidine	2.1	% of protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Histidine	2.7	% of protein	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Histidine	1.8	% of protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Histidine	2.1	% of protein	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Histidine	0.6	% of protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Histidine	2.3	% of protein	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Histidine	1.8	% of protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Histidine	1.5	% of protein	Feedipedia
Snail	Snail meal	Without shells	Proximates	Histidine	2.3	% of protein	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Histidine	2.3	% of protein	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Histidine	2.7	% of protein	Feedipedia

Frog	Tadpole meal, dried	Skinned, dried	Proximates	Histidine	3	% of protein	Feedipedia
Whale	Whale meal		Proximates	Histidine	2.3	% of protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Histidine	1.6	% of protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Histidine	1.8	% of protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Histidine	2	% of protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Histidine	3.7	% of protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Histidine	1.5	% of protein	Feedipedia
Rye	Seed residue		Proximates	Histidine	2.08	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Histidine	2.29	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Histidine	2.27	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Histidine	2.36	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Histidine	2.39	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Histidine	3.54	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Histidine	2.4	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Histidine	2.37	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Distillery by-products, unspecified	Distillers solids		Proximates	Histidine	19	g/160g nitrogen	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Barley	Barley		Proximates	Histidine	42	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs

Soy	Soybean meal	Soyabean meal	Proximates	Histidine	36	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Histidine	18	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Histidine	31.6	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Histidine	38	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Histidine	1.65	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Histidine	1.44	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Histidine	1.46	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Hop	Hops		Proximates	Histidine	1.64	mg/g DM	NOSHAN

Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Histidine	1.85	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Histidine	0.41	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Histidine	1.68	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Histidine	0.42	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Histidine	1.3	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Histidine	0.2	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Histidine	0.77	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Histidine	1.52	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Histidine	0.12	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Histidine	0.07	mg/g DM	NOSHAN
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Histidine	6.6	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)

Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Histidine	5.24	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Histidine	5.85	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Histidine	5.7	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Histidine	2.65	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Histidine	3.08	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Freshwater fish silage	Acid	Proximates	Histidine	2.75	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Histidine	2.02	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Histidine	2.52	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Histidine	2.2	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Histidine	5.6	g/kg DM	Nutritive value of plantain and chicory for pigs

Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Histidine	3.1	g/kg DM	Nutritive value of plantain and chicory for pigs
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Histidine	93.06	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Histidine	122.73	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Histidine	2.7	g/16g N	Feedipedia

Banana	Banana		Proximates	Holocellulose	50.92	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sugar cane	Sugar cane bagasse		Proximates	Holocellulose	71.39	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sponge gourd	Sponge gourd fibers		Proximates	Holocellulose	84.03	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sugar cane	Sugar cane bagasse		Proximates	Holocellulose	75.8	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw

Sugar cane	Sugar cane straw		Proximates	Holocellulose	72.9	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw
Sugar by-products, unspecified	Bagasse		Proximates	Holocellulose	58.2	% DM	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Hordein, B	31	%	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Hordein, C	41	%	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Hordein, Gamma	10	%	NOSHAN
Grape	Grape stalks		Waste compounds	Hot water	23.7	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces

Nuts, unspecified	Nut shells	Almond	Waste compounds	Hot water extractives (100°C)	105	g/kg DM	Development of an integrated pretreatment fractionation process for fermentable sugars and lignin, application to almond shell
Rice	Rice straw		Proximates	Hourly degradation rate of particles	0.032	h-1	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Hourly degradation rate of particles	0.04	h-1	Feedipedia
Wheat	Wheat straw		Proximates	Hourly degradation rate of particles	0.056	h-1	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Hourly degradation rate of particles	0.02	h-1	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Hourly degradation rate of particles	0.089	h-1	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Hourly degradation rate of particles	0.05	h-1	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Hourly degradation rate of particles	0.05	h-1	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Hourly degradation rate of particles	0.043	h-1	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Hourly degradation rate of particles	0.043	h-1	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Hourly degradation rate of particles	0.043	h-1	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Hourly degradation rate of particles	0.061	h-1	Feedipedia

Rice	Rough rice, paddy rice		Proximates	Hourly degradation rate of particles	0.163	h-1	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Hourly degradation rate of particles	0.039	h-1	Feedipedia
Wheat	Wheat bran		Proximates	Hourly degradation rate of particles	0.2	h-1	Feedipedia
Wheat	Wheat grain		Proximates	Hourly degradation rate of particles	0.079	h-1	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Hourly degradation rate of particles	0.041	h-1	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Hourly degradation rate of particles	0.04	h-1	Feedipedia
Cotton	Cottonseed hulls		Proximates	Hourly degradation rate of particles	0.03	h-1	Feedipedia

Cotton	Cottonseed meal	High fibre, high oil	Proximates	Hourly degradation rate of particles	0.022	h-1	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Hourly degradation rate of particles	0.075	h-1	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Hourly degradation rate of particles	0.04	h-1	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Hourly degradation rate of particles	0.036	h-1	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Hourly degradation rate of particles	0.075	h-1	Feedipedia
Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Proximates	Hourly degradation rate of particles	0.06	h-1	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Hourly degradation rate of particles	0.061	h-1	Feedipedia

Palm	Palm kernel meal	Mechanical extraction	Proximates	Hourly degradation rate of particles	0.029	h-1	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Hourly degradation rate of particles	0.02	h-1	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Hourly degradation rate of particles	0.107	h-1	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Hourly degradation rate of particles	0.12	h-1	Feedipedia
Pumpkin	Pumpkin	Fruits, dried, Cucurbita sp.	Proximates	Hourly degradation rate of particles	0.111	h-1	Feedipedia
Rape	Rape forage	Fresh	Proximates	Hourly degradation rate of particles	0.16	h-1	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Hourly degradation rate of particles	0.086	h-1	Feedipedia

Canola	Canola meal	Oil <5% as fed	Proximates	Hourly degradation rate of particles	0.044	h-1	Feedipedia
Soy	Soybean straw		Proximates	Hourly degradation rate of particles	0.043	h-1	Feedipedia
Soy	Soybean hulls		Proximates	Hourly degradation rate of particles	0.043	h-1	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Hourly degradation rate of particles	0.104	h-1	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Hourly degradation rate of particles	0.08	h-1	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Hourly degradation rate of particles	0.105	h-1	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Hourly degradation rate of particles	0.086	h-1	Feedipedia

Soy	Soybeans	Extruded	Proximates	Hourly degradation rate of particles	0.053	h-1	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Hourly degradation rate of particles	0.148	h-1	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Hourly degradation rate of particles	0.025	h-1	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Hourly degradation rate of particles	0.172	h-1	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Hourly degradation rate of particles	0.162	h-1	Feedipedia
Sunflower	Sunflower seeds		Proximates	Hourly degradation rate of particles	0.125	h-1	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Hourly degradation rate of particles	0.077	h-1	Feedipedia

Coffee	Coffee hulls		Proximates	Hourly degradation rate of particles	0.026	h-1	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Hourly degradation rate of particles	0.041	h-1	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Hourly degradation rate of particles	0.034	h-1	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Hourly degradation rate of particles	0.056	h-1	Feedipedia
Tomatoes	Tomato plant	Fresh, whole plant	Proximates	Hourly degradation rate of particles	0.046	h-1	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Hourly degradation rate of particles	0.07	h-1	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Hourly degradation rate of particles	0.213	h-1	Feedipedia

Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Hourly degradation rate of particles	0.07	h-1	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Hourly degradation rate of particles	0.015	h-1	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Hourly degradation rate of particles	0.05	h-1	Feedipedia
Poultry	Feather meal		Proximates	Hourly degradation rate of particles	0.055	h-1	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Hourly degradation rate of particles	0.05	h-1	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Hourly degradation rate of particles	0.045	h-1	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Hourly degradation rate of particles	0.05	h-1	Feedipedia

Poultry	Offal meal	Poultry	Proximates	Hourly degradation rate of particles	0.04	h-1	Feedipedia
Nuts, unspecified	Nut shells	Cashew	Inorganics	Hydrogen	6.96	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shells	Cashew, de-oiled	Inorganics	Hydrogen	4.95	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Olive	Olive husk		Inorganics	Hydrogen	5.62	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Inorganics	Hydrogen	6.5	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura

Olive	Olive husk		Inorganics	Hydrogen	5.89	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Inorganics	Hydrogen	6.69	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Grape	Grape waste		Inorganics	Hydrogen	6.33	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Coconut	Char from coconut shell	Char produced at 750°C	Inorganics	Hydrogen	0.73	%	ECN Phyllis 2

Grape	Char from grape residue	Residue from wine production, pyrolysis in packed bed (280-530°C deg C radial profile)	Inorganics	Hydrogen	2.62	%	ECN Phyllis 2
Rice	Char from rice hulls		Inorganics	Hydrogen	0.87	%	ECN Phyllis 2
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Hydrogen	3.1	%	ECN Phyllis 2
Grapefruit	Grapefruit skin char	GrapefuitChar produced at 700°C from grapefruit skin	Inorganics	Hydrogen	1.62	%	ECN Phyllis 2
Orange	Orange skin char	OrangeCarbonization under N2 for 2 hours at 700°C	Inorganics	Hydrogen	1.74	%	ECN Phyllis 2
Poultry	Pyrolysis char from skimmings poultry processing	600°C pyrolysis	Inorganics	Hydrogen	2.31	%	ECN Phyllis 2

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Hydrogen	1.36	%	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Hydrogen	3.16	%	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Hydrogen	1.4	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 400/60/0. Combustion temperature: 400°C, 60 minutes, 0% oxygen	Inorganics	Hydrogen	2.9	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Hydrogen	1.52	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Hydrogen	1.53	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Hydrogen	56.54	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Hydrogen	1.28	%	ECN Phyllis 2
Olive	Char from olive husks	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Hydrogen	2.83	%	ECN Phyllis 2
Olive	Char from olive husks		Inorganics	Hydrogen	5.2	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 623 K; S-Co2 = 305 m2/g	Inorganics	Hydrogen	4.2	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at 873 K; S-N2 = 85 m2/g, S-CO2 = 548 m2/g	Inorganics	Hydrogen	1.92	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 1123 K; S-CO2 = 737 m2/g	Inorganics	Hydrogen	0.52	%	ECN Phyllis 2

Peanuts	Char from peanut shells	Char produced at 350°C	Inorganics	Hydrogen	4.58	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 600°C	Inorganics	Hydrogen	2.11	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 850°C	Inorganics	Hydrogen	0.77	%	ECN Phyllis 2
Rice	Rice straw char	Char from pyrolysis at 490°C	Inorganics	Hydrogen	2.37	%	ECN Phyllis 2
Straw	Straw		Inorganics	Hydrogen	6.04	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Hydrogen	2.8	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Hydrogen	1.4	%	ECN Phyllis 2
Wheat	Char from wheat straw	Char from fluid bed gasifier	Inorganics	Hydrogen	1.34	%	ECN Phyllis 2
Wheat	Char from wheat straw	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Hydrogen	2.89	%	ECN Phyllis 2
Wheat	Wheat straw char		Inorganics	Hydrogen	2.7	%	ECN Phyllis 2
Sugar cane	Sugar cane trash	Ground pellets	Inorganics	Hydrogen	5.08	%	ECN Phyllis 2

Sugar beet	Sugar beet		Inorganics	Hydrogen	5.9	%	ECN Phyllis 2
Sugar cane	Sugar cane leaves	Higher heating value given as 16.000-17600 kJ/kg; in Biomass and Bioenergy 13 (1997) 141-146 it is given as 17.430 kJ/kg. The higher value may apply to dry ash-free material.	Inorganics	Hydrogen	3.69	%	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Hydrogen	0.75	%	ECN Phyllis 2
Bean	Bean plant		Inorganics	Hydrogen	0.7	%	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Hydrogen	5.65	%	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Hydrogen	0.26	%	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Hydrogen	0.41	%	ECN Phyllis 2

Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Hydrogen	0.36	%	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Hydrogen	0.8	%	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Hydrogen	0.43	%	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Hydrogen	0.42	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Hydrogen	5.48	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Hydrogen	5.36	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Hydrogen	5.48	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Hydrogen	5.97	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Inorganics	Hydrogen	5.79	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Hydrogen	6	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Hydrogen	5.44	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Hydrogen	5.45	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Hydrogen	5.98	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Hydrogen	5.58	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Hydrogen	5.87	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Hydrogen	5.79	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Hydrogen	5.56	%	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Hydrogen	5.95	%	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Hydrogen	4.54	%	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Hydrogen	8.32	%	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Hydrogen	5.06	%	ECN Phyllis 2
Cacao/cocoa	Cacao shells	Report JOU2-CT93-0397; data from K. Lassing, E. Olsson and L. Waldheim, TPS	Inorganics	Hydrogen	5.25	%	ECN Phyllis 2
Cacao/cocoa	Cacao hulls		Inorganics	Hydrogen	5.23	%	ECN Phyllis 2
Coconut	Coconut shell	Coconuts shells from Madal, Mozambique	Inorganics	Hydrogen	6.2	%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Hydrogen	5.7	%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Hydrogen	5.19	%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Hydrogen	4.97	%	ECN Phyllis 2
Coconut	Coconut fibre	Coir	Inorganics	Hydrogen	2.25	%	ECN Phyllis 2

Coconut	Coconut fibre dust	Coir. Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Inorganics	Hydrogen	6.54	%	ECN Phyllis 2
Coconut	Coconut fibre dust	Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Inorganics	Hydrogen	5.05	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 4.2% (obtained with extraction with acetone/water)	Inorganics	Hydrogen	5.33	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 1, samples from Trabzon, Turkey	Inorganics	Hydrogen	4.83	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 2, samples from Trabzon, Turkey	Inorganics	Hydrogen	5.08	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 3, samples from Trabzon, Turkey	Inorganics	Hydrogen	5.22	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 4, samples from Trabzon, Turkey	Inorganics	Hydrogen	5.05	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Hydrogen	6.2	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Hydrogen	5.26	%	ECN Phyllis 2

Nuts, unspecified	Nut seedcoat	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 19.6% (obtained with extraction with alcohol/benzene)	Inorganics	Hydrogen	5.3	%	ECN Phyllis 2
Olive	Olive		Inorganics	Hydrogen	6.23	%	ECN Phyllis 2
Olive	Olive		Inorganics	Hydrogen	6.06	%	ECN Phyllis 2
Olive	Olive		Inorganics	Hydrogen	6.29	%	ECN Phyllis 2
Olive	Olive cake		Inorganics	Hydrogen	6.47	%	ECN Phyllis 2
Olive	Olive husk	Biochemical composition on extractive free basis. Concentration of extractives: 8.1% (obtained with extraction with alcohol/benzene)	Inorganics	Hydrogen	5.95	%	ECN Phyllis 2

Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Hydrogen	6.7	%	ECN Phyllis 2
Olive	Olive husk	Ash type: 815°C	Inorganics	Hydrogen	7.1	%	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Hydrogen	6.28	%	ECN Phyllis 2
Olive	Olive pits		Inorganics	Hydrogen	6.23	%	ECN Phyllis 2
Olive	Olive pits	S-N2 = 0,6 m2/g; S-CO2 = 53 m2/g; see for char 1825, 1826 and 1827	Inorganics	Hydrogen	6.01	%	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Hydrogen	6.09	%	ECN Phyllis 2
Olive	Olive residue	Oily refuse from olive processing	Inorganics	Hydrogen	4.8	%	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Hydrogen	4.33	%	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Hydrogen	5.74	%	ECN Phyllis 2
Olive	Olive residue		Inorganics	Hydrogen	5.14	%	ECN Phyllis 2
Olive	Olive residue		Inorganics	Hydrogen	4.85	%	ECN Phyllis 2
Olive	Olive waste	Country: Spain	Inorganics	Hydrogen	4.94	%	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Hydrogen	5.39	%	ECN Phyllis 2
Olive	Olive husk	Exhausted	Inorganics	Hydrogen	6.22	%	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Hydrogen	5.31	%	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Hydrogen	5.42	%	ECN Phyllis 2

Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Hydrogen	5.57	%	ECN Phyllis 2
Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Hydrogen	5.35	%	ECN Phyllis 2

Olive	Orujillo	Wood matter from pressed oil stone	Inorganics	Hydrogen	6.01	%	ECN Phyllis 2
Cherry	Cherry pits		Inorganics	Hydrogen	6.61	%	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Hydrogen	4.08	%	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Hydrogen	6.26	%	ECN Phyllis 2
Peach	Peach pits		Inorganics	Hydrogen	5.9	%	ECN Phyllis 2
Peach	Peach pits		Inorganics	Hydrogen	6.34	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Hydrogen	5.83	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Hydrogen	5.84	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Hydrogen	5.91	%	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Hydrogen	4.38	%	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Hydrogen	5.9	%	ECN Phyllis 2
Apricot	Apricot stones	Apricot stones as waste product of canning industry, Bulgaria	Inorganics	Hydrogen	5.89	%	ECN Phyllis 2
Babassu	Babassu husks		Inorganics	Hydrogen	5.37	%	ECN Phyllis 2

Coffee	Coffee husk	Parchment	Inorganics	Hydrogen	4.36	%	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Inorganics	Hydrogen	5.53	%	ECN Phyllis 2
Grape	Grape seeds		Inorganics	Hydrogen	6.31	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Kukui. Charcoal yield 58.6% at 1 MPa, fixed-C yield 41.4%	Inorganics	Hydrogen	5.6	%	ECN Phyllis 2
Lemon	Lemon pellets	Lemon. Ash type: 815°C	Inorganics	Hydrogen	5.88	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Inorganics	Hydrogen	8.12	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia	Inorganics	Hydrogen	4.99	%	ECN Phyllis 2
Millet	Millet husk		Inorganics	Hydrogen	5.28	%	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Hydrogen	8.35	%	ECN Phyllis 2
Olive	Olive stones		Inorganics	Hydrogen	6.3	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents

Olive	Olive stones	Carbonization solid product	Inorganics	Hydrogen	2.4	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive stones	Vacuum carbonization solid product	Inorganics	Hydrogen	2	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp		Inorganics	Hydrogen	5.5	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp	Carbonization solid product	Inorganics	Hydrogen	2.2	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp	Vacuum carbonization solid product	Inorganics	Hydrogen	2	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Apple	Apple pomace		Inorganics	Hydrogen	6.8	% d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Hydrogen	5.76	% d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Hydrogen	7.21	% d.b.	NOSHAN
Hop	Hops		Inorganics	Hydrogen	5.66	% d.b.	NOSHAN

Rice	Rice husk	Before soaking pre-treatment	Inorganics	Hydrogen	4.5	% d.b.	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk, dried	Soaked rice husks, dried	Inorganics	Hydrogen	5.12	% d.b.	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Sugar by-products, unspecified	Bagasse		Inorganics	Hydrogen	5.9	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Inorganics	Hydrogen	6.2	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Grape	Grape marc		Inorganics	Hydrogen	5.73	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Inorganics	Hydrogen	5.82	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Inorganics	Hydrogen	6.06	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape seeds		Inorganics	Hydrogen	6.97	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Inorganics	Hydrogen	5.91	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Inorganics	Hydrogen	5.88	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Tomatoes	Tomato peel		Inorganics	Hydrogen	8.1	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Inorganics	Hydrogen	8.5	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Inorganics	Hydrogen	7.6	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato meal		Inorganics	Hydrogen	7.1	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Inorganics	Hydrogen	8	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Inorganics	Hydrogen	8.3	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Inorganics	Hydrogen	10.5	% d.b.	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Inorganics	Hydrogen	11.8	% d.b.	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Sugar cane	Sugar cane bagasse		Inorganics	Hydrogen	6.04	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Sugar cane	Sugar cane bagasse		Inorganics	Hydrogen	5.96	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations

Cotton	Cotton stalk		Inorganics	Hydrogen	4.58	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Apple	Apple cake		Inorganics	Hydrogen	5.62	% d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Hydrogen	6.32	% d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Hydrogen	6.8	% d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Hydrogen	5.38	% d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Hydrogen	1.2	% d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Hydrogen	4.8	% d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Hydrogen	6.23	% d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Hydrogen	6.7	% d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Hydrogen	6.08	% d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Hydrogen	7.06	% d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Hydrogen	6.99	% d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Hydrogen	5.58	% d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Hydrogen	4.84	% d.b.	NOSHAN

Potato	Potato	Selected	Inorganics	Hydrogen	5.78	% d.b.	NOSHAN
Potato	Potato skin		Inorganics	Hydrogen	5.76	% d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Hydrogen	6.67	% d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Hydrogen	5.4	% d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Hydrogen	5.98	% d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Hydrogen	7.28	% d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Hydrogen	6.87	% d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Hydrogen	7.02	% d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Hydrogen	7.93	% d.b.	NOSHAN
Rice	Rice husk		Inorganics	Hydrogen	6.1	% d.b.	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Variety: Lemont LG	Inorganics	Hydrogen	5.42	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis

Rice	Rice husk	Variety: ROK 14	Inorganics	Hydrogen	4.98	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: CP4	Inorganics	Hydrogen	4.7	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: Pa Potho	Inorganics	Hydrogen	5.1	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Sunflower	Sunflower oil cake		Inorganics	Hydrogen	6.2	% dry ash free basis	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake

Rice	Rice husk	Raw	Inorganics	Hydrogen	4.9	% dry ash free basis	Development of photoluminescent glass derived from rice husk
Babassu	Babassu cake		Inorganics	Hydrogen	6.8	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Canola	Canola cake		Inorganics	Hydrogen	7.4	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Castor	Castor seed cake		Inorganics	Hydrogen	6.5	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower cake		Inorganics	Hydrogen	7.2	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower extracted bagasse		Inorganics	Hydrogen	7.1	wt% daf	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse

Sunflower	Sunflower extracted atmosphere oil		Inorganics	Hydrogen	7.9	wt% daf	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Sunflower	Sunflower extracted atmosphere oil	Nitrogen	Inorganics	Hydrogen	8.8	wt% daf	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Beef	Paunch		Inorganics	Hydrogen	6.3	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Dissolved air flotation sludge		Inorganics	Hydrogen	6.3	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Soft offal		Inorganics	Hydrogen	10.8	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Mixture of paunch, dissolved air flotation sludge and soft offal at annual production ratios		Inorganics	Hydrogen	8.4	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Cattle manure	Slurry	Inorganics	Hydrogen	5.18	% total solids	Co-digestion of source segregated domestic food waste to improve process stability
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Hydrogen	7.04	% total solids	Co-digestion of source segregated domestic food waste to improve process stability

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Luton, UK	Inorganics	Hydrogen	6.56	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Hackney, UK	Inorganics	Hydrogen	6.67	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Ludlow, UK	Inorganics	Hydrogen	5.53	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Eastleigh, UK	Inorganics	Hydrogen	6.37	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Inorganics	Hydrogen	5.72	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Inorganics	Hydrogen	5.58	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rape	Rape straw	490 fully ripe rape straw samples collected in China	Inorganics	Hydrogen	6.37	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Inorganics	Hydrogen	5.81	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Orange	Orange peel	Orange	Undesirable components	Imazalil	0.5	mg/kg	NOSHAN
Apple	Apple pomace		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN

Apple	Apple cake		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Indium	<0.01	ppm d.b.	NOSHAN

Tomatoes	Tomato skin		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Indium	<0.01	ppm d.b.	NOSHAN
Rice	Rice husk		Waste compounds	Initial deformation temp	1370	°C	Combustion behaviour of rice husk in a bubbling fluidised bed
Wheat	Wheat straw		Waste compounds	Initial deformation temp	900-1050	°C	Combustion behaviour of rice husk in a bubbling fluidised bed
Sugar beet	Sugar beet		Waste compounds	Initial deformation temp	1000	°C	ECN Phyllis 2

Sugar cane	Sugar cane leaves	Higher heating value given as 16.000-17600 kJ/kg; in Biomass and Bioenergy 13 (1997) 141-146 it is given as 17.430 kJ/kg. The higher value may apply to dry ash-free material.	Waste compounds	Initial deformation temp	900	°C	ECN Phyllis 2
Aubergine	Aubergine plant		Waste compounds	Initial deformation temp	1650	°C	ECN Phyllis 2
Bean	Bean plant		Waste compounds	Initial deformation temp	1353	°C	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Waste compounds	Initial deformation temp	1280	°C	ECN Phyllis 2
Courgette	Courgette plant		Waste compounds	Initial deformation temp	1546	°C	ECN Phyllis 2

Cucumber	Cucumber plant		Waste compounds	Initial deformation temp	993	°C	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Waste compounds	Initial deformation temp	993	°C	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Waste compounds	Initial deformation temp	994	°C	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Waste compounds	Initial deformation temp	740	°C	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash fusion temperatures according to ASTM D-1857	Waste compounds	Initial deformation temp	860	°C	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Waste compounds	Initial deformation temp	790	°C	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Waste compounds	Initial deformation temp	1060	°C	ECN Phyllis 2
Coconut	Coconut fibre dust	Coir. Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Waste compounds	Initial deformation temp	1120	°C	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Waste compounds	Initial deformation temp	1300	°C	ECN Phyllis 2

Olive	Olive	Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Waste compounds	Initial deformation temp	850	°C	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Waste compounds	Initial deformation temp	1100	°C	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Waste compounds	Initial deformation temp	1390	°C	ECN Phyllis 2
Olive	Olive tree pruning	Liquid fraction derived from organosolv pretreatment	Inorganics	Inorganic matter	0.05	%	Biorefining of olive tree (Olea europea) pruning
Lemon	Lemon peel	Fresh	Proximates	Inositol	11752	mg/kg DM	Citrus by-products as ruminant feeds: A review

Lemon	Sweet lemon pulp	Citrus limetta	Waste compounds	Insoluble but potential degradable fraction	49.8	%	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Waste compounds	Insoluble but potential degradable fraction	51.1	%	Utilization of fruit and vegetable wastes, FAO
Babassu	Babassu cake		Proximates	Insoluble neutral detergent fibers	49.59	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Canola	Canola cake		Proximates	Insoluble neutral detergent fibers	16.75	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Castor	Castor seed cake		Proximates	Insoluble neutral detergent fibers	20.99	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower cake		Proximates	Insoluble neutral detergent fibers	26.81	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Onion	Onion	Slices, fresh	Proximates	Inulin	9.4	g/100g	NOSHAN
Chicory	Chicory root		Proximates	Inulin	35.7-47.6	g/100g	Presence of inulin and oligofructose in the diets of Americans
Banana	Banana	Raw	Proximates	Inulin	0.3-0.7	g/100g	Presence of inulin and oligofructose in the diets of Americans

Leek	Leek	Raw	Proximates	Inulin	3.0-10.0	g/100g	Presence of inulin and oligofructose in the diets of Americans
Onion	Onion	Raw	Proximates	Inulin	1.1-7.5	g/100g	Presence of inulin and oligofructose in the diets of Americans
Wheat	Wheat bran	Raw	Proximates	Inulin	1.0-4.0	g/100g	Presence of inulin and oligofructose in the diets of Americans
Barley	Barley	Raw	Proximates	Inulin	0.5-1.0	g/100g	Presence of inulin and oligofructose in the diets of Americans
Barley	Barley	Cooked	Proximates	Inulin	0.1-0.2	g/100g	Presence of inulin and oligofructose in the diets of Americans
Banana	Banana	Canned	Proximates	Inulin	0.1-0.3	g/100g	Presence of inulin and oligofructose in the diets of Americans

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Inorganics	Iodine	Tr	µg	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Inorganics	Iodine	123.1	µg	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Abattoir wastes, unspecified	Abattoir raw effluent		Inorganics	Iron	36	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Inorganics	Iron	12	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Inorganics	Iron	19	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Inorganics	Iron	23	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Inorganics	Iron	13	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Inorganics	Iron	11	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Inorganics	Iron	18	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Inorganics	Iron	12	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Inorganics	Iron	6	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Inorganics	Iron	0.8	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Inorganics	Iron	0.6	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Inorganics	Iron	1.2	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Tomatoes	Tomato pomace	Solanum lucopersicum	Inorganics	Iron	541	mg/1000g	Vegetable waste as animal feed paper; Utilization of fruit and vegetable wastes, FAO

Nuts, unspecified	Nut meal	Babacu	Inorganics	Iron	695	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Inorganics	Iron	208	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cassava	Cassava meal		Inorganics	Iron	351	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Coconut	Coconut meal	Solv	Inorganics	Iron	804	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Inorganics	Iron	105	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cotton	Cottonseed meal	solv	Inorganics	Iron	285	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Poultry	Feather meal	Hydrolyzed	Inorganics	Iron	222	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Inorganics	Iron	296	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Rice	Rice bran	Defatted	Inorganics	Iron	263	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Soy	Soybean meal	solv	Inorganics	Iron	334	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Sugar cane	Sugar cane juice		Inorganics	Iron	32.4	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Inorganics	Iron	279	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Wheat	Wheat bran		Inorganics	Iron	209	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Carrot	Carrot	Daucus carota	Inorganics	Iron	120	mg/1000g	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Inorganics	Iron	1816	mg/1000g	Vegetable waste as animal feed paper
Potato	Potato	Solanum tuberosum	Inorganics	Iron	39	mg/1000g	Vegetable waste as animal feed paper
Pumpkin	Pumpkin oil meal	Cucurbita pepo	Inorganics	Iron	211	mg/1000g	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Iron	541	mg/1000g	Vegetable waste as animal feed paper

Cabbage	Cabbage leaves	Brassica oleracea	Inorganics	Iron	894	mg/1000g	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Inorganics	Iron	387	mg/1000g	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Iron	677	mg/1000g	Vegetable waste as animal feed paper
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Inorganics	Iron	6.8	mg/1000g	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Inorganics	Iron	1922	mg/1000g	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Inorganics	Iron	0.06	mg d.b.	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Grape	Grape cane	Alphone Lavallee	Inorganics	Iron	0.32	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Inorganics	Iron	0.3	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Inorganics	Iron	0.34	mg/100g	Chemical composition of grape canes

Grape	Grape cane	Hafizali	Inorganics	Iron	0.26	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Inorganics	Iron	0.42	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Isabella	Inorganics	Iron	0.68	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Italia	Inorganics	Iron	0.26	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Inorganics	Iron	0.33	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Inorganics	Iron	0.44	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Inorganics	Iron	0.26	mg/100g	Chemical composition of grape canes

Grape	Grape seeds	White, Italian	Inorganics	Iron	58	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Red, Italian	Inorganics	Iron	64	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Californian	Inorganics	Iron	174	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Not ensiled	Inorganics	Iron	101	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Ensiled for 45 days	Inorganics	Iron	96	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	White, Italian	Inorganics	Iron	111	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Red, Italian	Inorganics	Iron	117	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Californian	Inorganics	Iron	398	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Not ensiled	Inorganics	Iron	194	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Ensiled for 45 days	Inorganics	Iron	223	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Distillery by-products, unspecified	Distillers solids		Inorganics	Iron	173	g/kg DM	Wet barley distillers solids as a protein source for growing pigs

Apple	Apple pomace	Malus domestica	Inorganics	Iron	185	mg/kg DM	Waste to worth: fruit wastes and by-products as animal feed
Grape	Grape pomace/marc	Namily vitaceae	Inorganics	Iron	41	mg/kg DM	Utilization of fruit and vegetable wastes, FAO; Fruit waste as feed paper
Citrus, unspecified	Citrus pulp silage		Inorganics	Iron	160	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus meal, dried		Inorganics	Iron	180	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Iron	151	mg/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Inorganics	Iron	378	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Iron	508	mg/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Iron	160	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Iron	85.7	mg/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Iron	159.3	mg/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Inorganics	Iron	44.6	mg/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Inorganics	Iron	170	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Iron	500	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus seed meal	Mechanical extract	Inorganics	Iron	330	mg/kg DM	Citrus by-products as ruminant feeds: A review
Rice	Rice straw		Inorganics	Iron	335	mg/kg DM	Feedipedia
Wheat	Triticale grain		Inorganics	Iron	39	mg/kg DM	Feedipedia
Wheat	Wheat straw		Inorganics	Iron	184	mg/kg DM	Feedipedia
Palm	Oil palm fronds	Fresh	Inorganics	Iron	107	mg/kg DM	Feedipedia
Palm	Oil palm leaflets	Fresh	Inorganics	Iron	122	mg/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Inorganics	Iron	231	mg/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Inorganics	Iron	196	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Inorganics	Iron	130	mg/kg DM	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Inorganics	Iron	138	mg/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Inorganics	Iron	558	mg/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Inorganics	Iron	123	mg/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Inorganics	Iron	53	mg/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Inorganics	Iron	138	mg/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Inorganics	Iron	106	mg/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Inorganics	Iron	297	mg/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Inorganics	Iron	2556	mg/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Inorganics	Iron	443	mg/kg DM	Feedipedia
Rice	Rice hull		Inorganics	Iron	56	mg/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Inorganics	Iron	53	mg/kg DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Inorganics	Iron	250	mg/kg DM	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Inorganics	Iron	1	mg/kg DM	Feedipedia
Sorghum	Sorghum gluten feed		Inorganics	Iron	2056	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Inorganics	Iron	120	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Inorganics	Iron	24	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Inorganics	Iron	70	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Inorganics	Iron	80	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Inorganics	Iron	79	mg/kg DM	Feedipedia
Wheat	Wheat starch		Inorganics	Iron	10	mg/kg DM	Feedipedia
Wheat	Wheat bran		Inorganics	Iron	155	mg/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Inorganics	Iron	140	mg/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Inorganics	Iron	77	mg/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Inorganics	Iron	236	mg/kg DM	Feedipedia
Wheat	Wheat grain		Inorganics	Iron	78	mg/kg DM	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Inorganics	Iron	174	mg/kg DM	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Inorganics	Iron	97	mg/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Inorganics	Iron	118	mg/kg DM	Feedipedia

Nuts, unspecified	Nut oil meal	Cashew	Inorganics	Iron	139	mg/kg DM	Feedipedia
Castor	Castor oil meal	Ricinus communis	Inorganics	Iron	49	mg/kg DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Inorganics	Iron	1180	mg/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Inorganics	Iron	964	mg/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Inorganics	Iron	1228	mg/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Inorganics	Iron	170	mg/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Inorganics	Iron	204	mg/kg DM	Feedipedia
Flax/linseed	Flax straw		Inorganics	Iron	553	mg/kg DM	Feedipedia
Flax/linseed	Flax shives		Inorganics	Iron	395	mg/kg DM	Feedipedia
Grape	Grape seeds		Inorganics	Iron	34	mg/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Inorganics	Iron	212	mg/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Inorganics	Iron	645	mg/kg DM	Feedipedia
Flax/linseed	Linseed meal		Inorganics	Iron	175	mg/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Inorganics	Iron	122	mg/kg DM	Feedipedia
Corn	Maize germ	Oil <30%	Inorganics	Iron	87	mg/kg DM	Feedipedia

Olive	Olive oil cake	Crude, without stones	Inorganics	Iron	1200	mg/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Inorganics	Iron	660	mg/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Inorganics	Iron	1550	mg/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Inorganics	Iron	589	mg/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Inorganics	Iron	177	mg/kg DM	Feedipedia
Palm	Palm oil mill effluent	Decanted	Inorganics	Iron	2272	mg/kg DM	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Inorganics	Iron	11	mg/kg DM	Feedipedia
Palm	Palm press fibre	High oil	Inorganics	Iron	1434	mg/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Inorganics	Iron	3045	mg/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Inorganics	Iron	210	mg/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Inorganics	Iron	579	mg/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Inorganics	Iron	612	mg/kg DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Inorganics	Iron	250	mg/kg DM	Feedipedia

Nuts, unspecified	Nut skins	Peanut	Inorganics	Iron	481	mg/kg DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Inorganics	Iron	48	mg/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Inorganics	Iron	211	mg/kg DM	Feedipedia
Rape	Rape forage	Fresh	Inorganics	Iron	50	mg/kg DM	Feedipedia
Rape	Rape straw		Inorganics	Iron	61	mg/kg DM	Feedipedia
Rape	Rapeseed hulls		Inorganics	Iron	165	mg/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Inorganics	Iron	192	mg/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Inorganics	Iron	73	mg/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Inorganics	Iron	198	mg/kg DM	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Inorganics	Iron	422	mg/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Inorganics	Iron	1632	mg/kg DM	Feedipedia

Sesame	Sesame meal	Solvent extraction	Inorganics	Iron	55	mg/kg DM	Feedipedia
Soy	Soybean, aerial part	Fresh	Inorganics	Iron	1783	mg/kg DM	Feedipedia
Soy	Soybean hulls		Inorganics	Iron	669	mg/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Inorganics	Iron	346	mg/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Inorganics	Iron	169	mg/kg DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Inorganics	Iron	129	mg/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Inorganics	Iron	121	mg/kg DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Inorganics	Iron	54	mg/kg DM	Feedipedia
Soy	Soybeans	Toasted	Inorganics	Iron	129	mg/kg DM	Feedipedia
Soy	Soybeans	Extruded	Inorganics	Iron	124	mg/kg DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Inorganics	Iron	415	mg/kg DM	Feedipedia
Sunflower	Sunflower heads	Without seeds	Inorganics	Iron	633	mg/kg DM	Feedipedia
Sunflower	Sunflower hulls		Inorganics	Iron	137	mg/kg DM	Feedipedia
Sunflower	Sunflower screenings		Inorganics	Iron	137	mg/kg DM	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Inorganics	Iron	271	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Inorganics	Iron	253	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Inorganics	Iron	274	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Inorganics	Iron	422	mg/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Inorganics	Iron	72	mg/kg DM	Feedipedia
Apple	Apple pomace	Fresh	Inorganics	Iron	67	mg/kg DM	Feedipedia
Banana	Banana stalks	Fresh	Inorganics	Iron	310	mg/kg DM	Feedipedia
Banana	Banana peel	Mature, fresh	Inorganics	Iron	60	mg/kg DM	Feedipedia
Banana	Banana peel	Immature, fresh	Inorganics	Iron	67	mg/kg DM	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Inorganics	Iron	60	mg/kg DM	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Inorganics	Iron	54	mg/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Inorganics	Iron	80	mg/kg DM	Feedipedia
Coffee	Coffee hulls		Inorganics	Iron	233	mg/kg DM	Feedipedia

Coffee	Instant coffee by product		Inorganics	Iron	2064	mg/kg DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Inorganics	Iron	36	mg/kg DM	Feedipedia
Grape	Grape pomace	Dehydrated	Inorganics	Iron	266	mg/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Inorganics	Iron	53	mg/kg DM	Feedipedia
Carrot	Carrot tops	Fresh	Inorganics	Iron	2725	mg/kg DM	Feedipedia
Potato	Potato peel	Fresh	Inorganics	Iron	258	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Inorganics	Iron	625	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Inorganics	Iron	773	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Inorganics	Iron	483	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Inorganics	Iron	553	mg/kg DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Inorganics	Iron	1690	mg/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Inorganics	Iron	1342	mg/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Inorganics	Iron	36	mg/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Inorganics	Iron	327	mg/kg DM	Feedipedia

Sugar cane	Sugar cane molasses		Inorganics	Iron	173	mg/kg DM	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Inorganics	Iron	661	mg/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal		Inorganics	Iron	2186	mg/kg DM	Feedipedia
Poultry	Feather meal		Inorganics	Iron	625	mg/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Inorganics	Iron	367	mg/kg DM	Feedipedia
Fish, unspecified	Fish protein concentrate		Inorganics	Iron	1208	mg/kg DM	Feedipedia
Frog	Frog meal	Whole frog	Inorganics	Iron	18	mg/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Inorganics	Iron	1650	mg/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	Cattle	Inorganics	Iron	1650	mg/kg DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Inorganics	Iron	1444	mg/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Inorganics	Iron	615	mg/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Inorganics	Iron	495	mg/kg DM	Feedipedia
Poultry	Offal meal	Poultry	Inorganics	Iron	5107	mg/kg DM	Feedipedia

Shrimp	Shrimps, dried	Whole, dehydrated	Inorganics	Iron	28	mg/kg DM	Feedipedia
Toad	Toad meal		Inorganics	Iron	11	mg/kg DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Inorganics	Iron	7	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Inorganics	Iron	78	mg/kg DM	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Inorganics	Iron	560	mg/kg DM	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Inorganics	Iron	3	mg/kg DM	Feedipedia
Corn	Maize starch		Inorganics	Iron	10	mg/kg DM	Feedipedia
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Iron	950.1	mg/kg DM	ECN Phyllis 2

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Iron	440	mg/kg DM	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Iron	170	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Iron	240	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Iron	2155	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Iron	660	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Iron	4700	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Iron	660	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Iron	100	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Iron	6439.9	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Iron	8574.9	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Iron	300	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Iron	900	mg/kg DM	ECN Phyllis 2
Olive	Olive cake		Inorganics	Iron	2300	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Iron	351.5	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Iron	1704.4	mg/kg DM	ECN Phyllis 2
Olive	Olive residue	Sample lot size: 60kg. Country: Spain	Inorganics	Iron	1560.9	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Iron	1211	mg/kg DM	ECN Phyllis 2

Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Iron	893	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Iron	642	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Iron	677	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Inorganics	Iron	387	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Inorganics	Iron	894	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Iron	120	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Inorganics	Iron	39	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO

Lemon	Sweet lemon pulp	Citrus limetta, without skin	Inorganics	Iron	893	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Inorganics	Iron	185	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Inorganics	Iron	41	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Pineapple	Pineapple bran	Ananas comosus	Inorganics	Iron	561	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Iron	541	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Inorganics	Iron	2947	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Inorganics	Iron	226	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO

Melon	Watermelon, peels	Citrullus lanatus	Inorganics	Iron	185	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Inorganics	Iron	1816	ppm of veg and fruit wastes	Utilization of fruit and vegetable wastes, FAO
Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Iron	51.3	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Iron	38.8	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Iron	29.5	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Iron	13.5	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Bolti	Bolti fish	Whole	Inorganics	Iron	41.27	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate

Bolti	Bolti fish	Flesh only	Inorganics	Iron	43.54	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Fish, unspecified	Fish protein isolate		Inorganics	Iron	21.3	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Apple	Apple pomace		Inorganics	Iron	<0.01	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Iron	<1	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Iron	<1	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Iron	<1	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Iron	<1	ppm d.b.	NOSHAN

Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Iron	<0.1	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Iron	180.85	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Iron	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Iron	15.03	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Iron	25.05	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Iron	<1	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Iron	257	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Iron	<0.1	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Iron	<0.01	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Iron	87	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Iron	<1	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Iron	112.98	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Iron	<1	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Iron	<1	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Iron	<1	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Iron	28.75	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Iron	645	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Iron	70	ppm d.b.	NOSHAN

Apple	Apple	Whole	Inorganics	Iron	23.5	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Iron	49.4	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Iron	<1	ppm d.b.	NOSHAN
Milk	Milk	Holstein Friesian cows, Spain	Inorganics	Iron	0.09	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Inorganics	Iron	0.15	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Iron	54	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations

Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Inorganics	Iron	415.89	mg/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK
Food, unspecified	Food leftovers	Source segregated domestic food waste in Luton, UK	Inorganics	Iron	35	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Hackney, UK	Inorganics	Iron	45	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Source segregated domestic food waste in Ludlow, UK	Inorganics	Iron	54	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Eastleigh, UK	Inorganics	Iron	30	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Iron	92	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Iron	174	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Iron	80	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Iron	39	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Rice	Rice husk	Before soaking pre-treatment	Inorganics	Iron oxide (Fe_2O_3)	0.4	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Rice	Rice husk, dried	Soaked rice husks, dried	Inorganics	Iron oxide (Fe2O3)	0.15	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk		Inorganics	Iron oxide (Fe2O3)	0.1	% ash	Combustion behaviour of rice husk in a bubbling fluidised bed
Sugar cane	Sugar cane trash	Tops and leaves	Inorganics	Iron oxide (Fe2O3)	1.74	% ash	ECN Phyllis 2
Sugar beet	Sugar beet		Inorganics	Iron oxide (Fe2O3)	1.3	% ash	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Iron oxide (Fe2O3)	0.47	% ash	ECN Phyllis 2
Bean	Bean plant		Inorganics	Iron oxide (Fe2O3)	0.32	% ash	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Iron oxide (Fe2O3)	0.53	% ash	ECN Phyllis 2

Courgette	Courgette plant		Inorganics	Iron oxide (Fe2O3)	0.28	% ash	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Iron oxide (Fe2O3)	0.11	% ash	ECN Phyllis 2
Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Iron oxide (Fe2O3)	0.1	% ash	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Iron oxide (Fe2O3)	0.17	% ash	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Iron oxide (Fe2O3)	0.97	% ash	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Iron oxide (Fe2O3)	0.11	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Iron oxide (Fe2O3)	1.01	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Iron oxide (Fe2O3)	3.58	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Iron oxide (Fe2O3)	2.8	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Iron oxide (Fe2O3)	0.27	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Iron oxide (Fe2O3)	1.3	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Iron oxide (Fe2O3)	0.76	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Iron oxide (Fe2O3)	0.92	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash fusion temperatures according to ASTM D-1857	Inorganics	Iron oxide (Fe2O3)	3.83	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Iron oxide (Fe2O3)	0.4	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Iron oxide (Fe2O3)	2.3	% ash	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Iron oxide (Fe2O3)	3.77	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Iron oxide (Fe2O3)	3.8	% ash	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Iron oxide (Fe2O3)	1.5	% ash	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Iron oxide (Fe2O3)	6.4	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Iron oxide (Fe2O3)	3.8	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Iron oxide (Fe2O3)	1.34	% ash	ECN Phyllis 2
Olive	Olive		Inorganics	Iron oxide (Fe2O3)	5.1	% ash	ECN Phyllis 2

Olive	Olive		Inorganics	Iron oxide (Fe2O3)	7.12	% ash	ECN Phyllis 2
Olive	Olive	Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Iron oxide (Fe2O3)	2.2	% ash	ECN Phyllis 2
Olive	Olive cake		Inorganics	Iron oxide (Fe2O3)	3.1	% ash	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Iron oxide (Fe2O3)	6.3	% ash	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Iron oxide (Fe2O3)	6.58	% ash	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Iron oxide (Fe2O3)	2.32	% ash	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Iron oxide (Fe2O3)	2.37	% ash	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Iron oxide (Fe2O3)	4.25	% ash	ECN Phyllis 2
Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Iron oxide (Fe2O3)	2.4	% ash	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Iron oxide (Fe2O3)	2.2	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Iron oxide (Fe2O3)	35.2	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Iron oxide (Fe2O3)	35.37	% ash	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Iron oxide (Fe2O3)	0.57	% ash	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Inorganics	Iron oxide (Fe2O3)	0.9	% ash	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Iron oxide (Fe2O3)	0.8	% ash	ECN Phyllis 2
Rice	Rice husk	Ash	Inorganics	Iron oxide (Fe2O3)	0.423	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Silica powder	Inorganics	Iron oxide (Fe2O3)	0.0015	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash

Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Iron oxide (Fe2O3)	0.77	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Iron oxide (Fe2O3)	0.23	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Iron oxide (Fe2O3)	0.58	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Iron oxide (Fe2O3)	0.2	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Iron oxide (Fe2O3)	0.71	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Iron oxide (Fe2O3)	1.7	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Iron oxide (Fe2O3)	0.53	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Iron oxide (Fe2O3)	0.4	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Iron oxide (Fe2O3)	1.5	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Iron oxide (Fe2O3)	1.1	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Iron oxide (Fe2O3)	0.38	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Iron oxide (Fe2O3)	0.74	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Iron oxide (Fe2O3)	1.4	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Iron oxide (Fe2O3)	0.76	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Iron oxide (Fe2O3)	0.57	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk, dried	Powder	Inorganics	Iron oxide (Fe2O3)	0.038	% mass fraction	Development of photoluminescent glass derived from rice husk
Orange	Orange peel	Fresh	Waste compounds	Isobutyric acid	0.6	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange peel silage		Waste compounds	Isobutyric acid	3.6	g/kg DM	Citrus by-products as ruminant feeds: A review
Apple	Apple pomace		Proximates	Isoleucine	1.44	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Isoleucine	2.73	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Isoleucine	5.26	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Isoleucine	3.96	mg/g dry matter	NOSHAN
Canola	Canola meal		Proximates	Isoleucine	8.8	mg/g dry matter	A comparative study on amino acid availability of moist heated canla meal for poultry vs. ruminants
Apple	Apple cake		Proximates	Isoleucine	0.62	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Isoleucine	13.47	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Isoleucine	9.9	mg/g dry matter	NOSHAN

Cabbage	Cabbage		Proximates	Isoleucine	2.16	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Isoleucine	19.79	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Isoleucine	15.61	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Isoleucine	29.72	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Isoleucine	3.84	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Isoleucine	3.48	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Isoleucine	7.68	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Isoleucine	9.75	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Isoleucine	10.07	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Isoleucine	2.27	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Isoleucine	1.37	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Isoleucine	0.66	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Isoleucine	1.82	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Isoleucine	1.91	mg/g dry matter	NOSHAN

Rape	Rapeseed press cake		Proximates	Isoleucine	9.93	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Isoleucine	1.94	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Isoleucine	3.67	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Isoleucine	0.58	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Isoleucine	0.5	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Isoleucine	0.84	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Isoleucine	9.59	mg/g dry matter	NOSHAN
Canola	Canola meal	Average of analysed values	Proximates	Isoleucine	12.5	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities

Cabbage	Cabbage meal		Proximates	Isoleucine	7.5	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Isoleucine	10.7	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Isoleucine	13.3	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Canola	Juncea canola meal		Proximates	Isoleucine	15.7	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal

Rape	Rapeseed hulls	Purified	Proximates	Isoleucine	6.6	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Fish, unspecified	Fish meal		Proximates	Isoleucine	30.4	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Isoleucine	19.1	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Isoleucine	14.3	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Isoleucine	13.9	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Isoleucine	12.7	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Citrus, unspecified	Citrus pulp, dried		Proximates	Isoleucine	1.93	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Isoleucine	1.9	g/kg DM	Citrus by-products as ruminant feeds: A review

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Isoleucine	14.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Isoleucine	14.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Isoleucine	15.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Isoleucine	13.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Isoleucine	13.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Isoleucine	15.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Isoleucine	14.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Isoleucine	13.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Isoleucine	14.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Isoleucine	14.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rye	Seed residue		Proximates	Isoleucine	3.56	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Isoleucine	3.88	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Isoleucine	4.25	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Isoleucine	4.66	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Isoleucine	3.62	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Sugar beet	Sugar beet pulp		Proximates	Isoleucine	4.14	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Isoleucine	3.45	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Isoleucine	3.72	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Distillery by-products, unspecified	Distillers solids		Proximates	Isoleucine	46	g/160g nitrogen	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Barley	Barley		Proximates	Isoleucine	36	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Soy	Soybean meal	Soyabean meal	Proximates	Isoleucine	45	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Isoleucine	49	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs

Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Isoleucine	46.4	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Isoleucine	38.2	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Isoleucine	0.71	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Isoleucine	0.7	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Isoleucine	0.74	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Isoleucine	4.35	% protein	Chemical characterization of tomato pomace

Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Isoleucine	5.03	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Isoleucine	4.75	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Isoleucine	4.24	% protein	Chemical characterization of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Isoleucine	8	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Isoleucine	3.5	% protein	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Isoleucine	2.4	% protein	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Isoleucine	3.2	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Isoleucine	3.9	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Isoleucine	3.7	% protein	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Isoleucine	4.2	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Isoleucine	4.4	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Isoleucine	4.4	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Isoleucine	3.3	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Isoleucine	3.8	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Isoleucine	3.5	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Isoleucine	3.6	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Isoleucine	3.5	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Isoleucine	5.8	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Isoleucine	5.9	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Isoleucine	5.3	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Isoleucine	4.8	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Isoleucine	4.2	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Isoleucine	6.7	% protein	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Isoleucine	5.2	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Isoleucine	4.3	% protein	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Isoleucine	1.9	% protein	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Isoleucine	4.1	% protein	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Isoleucine	4.1	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Isoleucine	4	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Isoleucine	4	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Isoleucine	3.7	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Isoleucine	3.8	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Isoleucine	3.7	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Isoleucine	3.2	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Isoleucine	3.5	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Isoleucine	3.4	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Isoleucine	3.1	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Isoleucine	3.4	% protein	Feedipedia

Wheat	Wheat grain	Durum	Proximates	Isoleucine	3.8	% protein	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Isoleucine	3.8	% protein	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Isoleucine	5.3	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Isoleucine	3.5	% protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Isoleucine	3	% protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Isoleucine	2.6	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Isoleucine	3.1	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Isoleucine	3.2	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Isoleucine	3.2	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Isoleucine	3.1	% protein	Feedipedia
Grape	Grape seeds		Proximates	Isoleucine	3	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Isoleucine	4.4	% protein	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Isoleucine	3.7	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Isoleucine	4.7	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Isoleucine	3.3	% protein	Feedipedia

Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Isoleucine	3.5	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Isoleucine	3.2	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Isoleucine	3.4	% protein	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Isoleucine	3.8	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Isoleucine	3.5	% protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Isoleucine	3.7	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Isoleucine	4.5	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Isoleucine	3.2	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Isoleucine	3.9	% protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Isoleucine	3.7	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Isoleucine	3.2	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Isoleucine	3.7	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Isoleucine	3.4	% protein	Feedipedia

Nuts, unspecified	Nut skins	Peanut	Proximates	Isoleucine	3.2	% protein	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Isoleucine	4.2	% protein	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Isoleucine	3.9	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Isoleucine	0.3	% protein	Feedipedia
Pumpkin	Pumpkin seeds	Cucurbita sp.	Proximates	Isoleucine	3.6	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Isoleucine	4	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Isoleucine	4.4	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Isoleucine	4	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Isoleucine	4.3	% protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Isoleucine	3	% protein	Feedipedia

Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Isoleucine	3.8	% protein	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Isoleucine	3.7	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Isoleucine	3.7	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Isoleucine	3.4	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Isoleucine	3.4	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Isoleucine	3.4	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Isoleucine	4.6	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Isoleucine	4.6	% protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Isoleucine	4.6	% protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Isoleucine	4.5	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Isoleucine	4.7	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Isoleucine	4.6	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Isoleucine	4.5	% protein	Feedipedia

Sunflower	Sunflower screenings		Proximates	Isoleucine	3.6	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Isoleucine	4.1	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Isoleucine	4.1	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Isoleucine	4.2	% protein	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Isoleucine	3.8	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Isoleucine	3.9	% protein	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Isoleucine	3.3	% protein	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Isoleucine	3.2	% protein	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Isoleucine	3.7	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Isoleucine	3.6	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Isoleucine	3.5	% protein	Feedipedia

Orange	Orange pulp, dried		Proximates	Isoleucine	2.1	% protein	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Isoleucine	2	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Isoleucine	3.3	% protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Isoleucine	4.2	% protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Isoleucine	3.1	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Isoleucine	2.1	% protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Isoleucine	4.4	% protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Isoleucine	3.9	% protein	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Isoleucine	3.5	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Isoleucine	2.1	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Isoleucine	2.6	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Isoleucine	4.5	% protein	Feedipedia

Potato	Potato peel	Fresh	Proximates	Isoleucine	1.9	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Isoleucine	3.5	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Isoleucine	4	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Isoleucine	3.4	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Isoleucine	3.9	% protein	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Isoleucine	6.2	% protein	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Isoleucine	5.1	% protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Isoleucine	4.2	% protein	Feedipedia
Potato	Sweet potato leaf protein concentrate		Proximates	Isoleucine	4.9	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Isoleucine	4.1	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Isoleucine	4	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Isoleucine	0.6	% protein	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Isoleucine	2.4	% protein	Feedipedia

Date	Date palm pits	Phoenix dactylifera	Proximates	Isoleucine	3	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Isoleucine	0.6	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Isoleucine	0.3	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Isoleucine	0.2	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Isoleucine	1.5	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Isoleucine	4.2	% protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Isoleucine	1.1	% protein	Feedipedia
Animal by-products, unspecified	Blood meal	Chicken	Proximates	Isoleucine	4.6	% protein	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Isoleucine	2.6	% protein	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Isoleucine	7.1	% protein	Feedipedia
Poultry	Feather meal		Proximates	Isoleucine	4.9	% protein	Feedipedia

Fish, unspecified	Fish meal	High protein	Proximates	Isoleucine	4.3	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Isoleucine	4.2	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Isoleucine	4.1	% protein	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Isoleucine	4.7	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Isoleucine	4.2	% protein	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Isoleucine	1.9	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Isoleucine	3.4	% protein	Feedipedia
Poultry	Hatchery by product		Proximates	Isoleucine	3.6	% protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Isoleucine	4.1	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Isoleucine	1.6	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Isoleucine	1.7	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Isoleucine	4	% protein	Feedipedia

Animal by-products, unspecified	Liver meal	Pork	Proximates	Isoleucine	4	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Poultry	Proximates	Isoleucine	4.1	% protein	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Isoleucine	2.9	% protein	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Isoleucine	3.2	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Isoleucine	2.9	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Isoleucine	2.8	% protein	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Isoleucine	3.9	% protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Isoleucine	3.2	% protein	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Isoleucine	1.5	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Isoleucine	4.7	% protein	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Isoleucine	4.3	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Isoleucine	2.9	% protein	Feedipedia
Snail	Snail meal	Without shells	Proximates	Isoleucine	7.8	% protein	Feedipedia

Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Isoleucine	2.3	% protein	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Isoleucine	2.3	% protein	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Isoleucine	2.7	% protein	Feedipedia
Whale	Whale meal		Proximates	Isoleucine	5.1	% protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Isoleucine	5.2	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Isoleucine	4.7	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Isoleucine	4.6	% protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Isoleucine	5.8	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Isoleucine	3.4	% protein	Feedipedia

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Isoleucine	1.28	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Isoleucine	0.91	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Hop	Hops		Proximates	Isoleucine	0.13	mg/g DM	NOSHAN

Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Isoleucine	0.27	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Isoleucine	0.89	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Isoleucine	1.02	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Isoleucine	0.29	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Isoleucine	0.75	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Isoleucine	0.14	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Isoleucine	0.62	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Isoleucine	0.42	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Isoleucine	0.06	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Isoleucine	0.03	mg/g DM	NOSHAN
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Isoleucine	12.7	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)

Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Isoleucine	5.31	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Isoleucine	5.05	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Isoleucine	3.1	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Isoleucine	5.38	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Isoleucine	5	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Freshwater fish silage	Acid	Proximates	Isoleucine	3.1	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Isoleucine	6.24	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Isoleucine	4.63	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Isoleucine	2.51	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Isoleucine	12.6	g/kg DM	Nutritive value of plantain and chicory for pigs

Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Isoleucine	7.3	g/kg DM	Nutritive value of plantain and chicory for pigs
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Isoleucine	128.04	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Isoleucine	160.54	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Isoleucine	3.1	g/16g N	Feedipedia

Grape	Grape pomace, dried	Air dried	Flavonols	Isorhamnetin-glucoside	169	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Flavonols	Isorhamnetin-glucoside	145	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Flavonols	Isorhamnetin-glucoside	175	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Bamboo	Bamboo shoot shells	Ensiled	Waste compounds	Lactate	38	g/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Organic acids	Lactic acid	0.79	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Organic acids	Lactic acid	0.46	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Organic acids	Lactic acid	0.54	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Organic acids	Lactic acid	1.14	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Orange	Orange peel	Fresh	Organic acids	Lactic acid	23.0	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange peel silage		Organic acids	Lactic acid	83.6	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp silage		Organic acids	Lactic acid	21.9	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Fresh	Organic acids	Lactic acid	1.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Undesirable components	Lactic acid bacteria	6.91	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Undesirable components	Lactic acid bacteria	7.57	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Undesirable components	Lactic acid bacteria	7.65	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Apple	Apple pomace		Undesirable components	Lactic acid bacteria	4.51	log CFU/g	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace

Grape	Grape pomace		Undesirable components	Lactic acid bacteria	7.58	log CFU/g	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace
Cheese	Whey	Milk	Proximates	Lactoglobulin, beta	22	%	NOSHAN
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Lactose	0.0	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Cheese	Whey	Cheese	Proximates	Lactose	5	g/100g	Amelioration of lactic acid production from cheese whey using micro-aeration
Hop	Hops		Proximates	Lactose	<1	g/kg	NOSHAN
Barley	Malted barley germs		Proximates	Lactose	<1	g/kg	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Proximates	Lactose	<1	g/kg	NOSHAN
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Lactose	71.06	% DM	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Lactose	64.42	% DM	Feedipedia
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Lactose	4.47	%	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Lactose	4.11	%	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Grape	Grape pomace, dried	Air dried	Flavonols	Laricitrin-3-glucoside	216	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Flavonols	Laricitrin-3-glucoside	434	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Flavonols	Laricitrin-3-glucoside	220	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Lead	7.66	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Lead	6.16	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Lead	2.4	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Lead	1.1	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Lead	0	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Lead	0	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Apple	Apple pomace		Inorganics	Lead	<0.01	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Lead	0.28	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Lead	0.14	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Lead	0.27	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Lead	0.21	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Lead	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Lead	<0.01	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Lead	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Lead	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Lead	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Lead	0.17	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Lead	0.48	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Lead	<0.01	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Lead	<0.1	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Lead	0.45	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Lead	0.61	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Lead	2.55	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Lead	0.18	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Lead	0.29	ppm d.b.	NOSHAN

Rape	Rapeseed press cake		Inorganics	Lead	0.18	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Lead	<0.01	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Lead	0.83	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Lead	<0.1	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Lead	<0.1	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Lead	<0.1	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Lead	0.17	ppm d.b.	NOSHAN
Grape	Grape marc		Inorganics	Lead	2.04	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Inorganics	Lead	2.68	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape peels		Inorganics	Lead	1.07	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape seeds		Inorganics	Lead	3.28	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Inorganics	Lead	1.07	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape meal	Extraction meal	Inorganics	Lead	0.71	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato peel		Inorganics	Lead	2.1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Inorganics	Lead	2.2	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato cake		Inorganics	Lead	1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato meal		Inorganics	Lead	1.2	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Inorganics	Lead	4	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato residues	Wet	Inorganics	Lead	3.4	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Lead	2.1	mg/kg DM	ECN Phyllis 2
Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Lead	100	mg/kg DM	ECN Phyllis 2

Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Lead	2	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Lead	42	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Lead	12.3	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Lead	200	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Lead	63	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Lead	8	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Lead	1	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Lead	12	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Lead	11.3	mg/kg DM	ECN Phyllis 2
Apple	Apple	Average of 50 samples	Inorganics	Lead	1.2	mg/kg DM	ECN Phyllis 2
Apple	Apple		Inorganics	Lead	0.3	mg/kg DM	ECN Phyllis 2
Apple	Apple	Cox	Inorganics	Lead	0.5	mg/kg DM	ECN Phyllis 2
Brussels sprouts	Brussels sprouts		Inorganics	Lead	7.1	mg/kg DM	ECN Phyllis 2
Brussels sprouts	Brussels sprouts		Inorganics	Lead	0.5	mg/kg DM	ECN Phyllis 2
Carrot	Carrot	Average of 46 samples	Inorganics	Lead	0.4	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Lead	0.5	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Lead	0.8	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Lead	0.4	mg/kg DM	ECN Phyllis 2

Cauliflower	Cauliflower	Average of 35 samples	Inorganics	Lead	0.1	mg/kg DM	ECN Phyllis 2
Cauliflower	Cauliflower		Inorganics	Lead	0.4	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber	Average of 46 samples	Inorganics	Lead	0.1	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Lead	0.3	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Lead	0.2	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Lead	0.5	mg/kg DM	ECN Phyllis 2
Leek	Leek		Inorganics	Lead	1	mg/kg DM	ECN Phyllis 2
Leek	Leek		Inorganics	Lead	1.3	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce	Average of 54 samples	Inorganics	Lead	3	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce	Average of 21 samples	Inorganics	Lead	2.3	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce	Average of 41 samples	Inorganics	Lead	0.2	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce	Average of 15 samples	Inorganics	Lead	0.7	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Lead	5.3	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Lead	4.3	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Lead	6.8	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Lead	1.8	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Lead	2.6	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Lead	1.1	mg/kg DM	ECN Phyllis 2
Onion	Onion	Average of 38 samples	Inorganics	Lead	0.2	mg/kg DM	ECN Phyllis 2

Onion	Onion		Inorganics	Lead	1.1	mg/kg DM	ECN Phyllis 2
Potato	Potato	Average of 55 samples	Inorganics	Lead	0.2	mg/kg DM	ECN Phyllis 2
Potato	Potato	Average of 40 samples	Inorganics	Lead	0.1	mg/kg DM	ECN Phyllis 2
Potato	Potato	Average of 30 samples	Inorganics	Lead	0	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet	Average of 3 samples	Inorganics	Lead	0.2	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet		Inorganics	Lead	0.4	mg/kg DM	ECN Phyllis 2
Cabbage	Cabbage	Red. Average of 25 samples	Inorganics	Lead	0	mg/kg DM	ECN Phyllis 2
Cabbage	Cabbage	Red. Average of 19 samples	Inorganics	Lead	0.3	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 6 samples	Inorganics	Lead	1	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 36 samples	Inorganics	Lead	2.1	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 40 samples	Inorganics	Lead	1.6	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 38 samples	Inorganics	Lead	0.8	mg/kg DM	ECN Phyllis 2
Spinach	Spinach		Inorganics	Lead	2.9	mg/kg DM	ECN Phyllis 2
Spinach	Spinach		Inorganics	Lead	3.2	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Lead	33	mg/kg DM	ECN Phyllis 2

Cacao/cocoa	Cacao shells		Inorganics	Lead	620	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Lead	1.5	mg/kg DM	ECN Phyllis 2
Sugar beet	Sugar beet		Inorganics	Lead	0	mg/kg ash	ECN Phyllis 2
Poultry	Hatchery waste		Inorganics	Lead	<0.5	mg/kg	Composition of Australian meat chicken hatchery waste
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Lead	<2.5	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations
Apple	Apple pomace		Proximates	Leucine	2.78	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Leucine	4.45	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Leucine	9.18	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Leucine	6.92	mg/g dry matter	NOSHAN

Canola	Canola meal		Proximates	Leucine	23.5	mg/g dry matter	A comparative study on amino acid availability of moist heated canla meal for poultry vs. ruminants
Apple	Apple cake		Proximates	Leucine	1.28	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Leucine	20.74	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Leucine	17.99	mg/g dry matter	NOSHAN
Cabbage	Cabbage		Proximates	Leucine	2.96	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Leucine	37.72	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Leucine	29.98	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Leucine	54.66	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Leucine	6.44	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Leucine	5.62	mg/g dry matter	NOSHAN

Barley	Malted barley germs		Proximates	Leucine	12.85	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Leucine	15.67	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Leucine	15.78	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Leucine	3.82	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Leucine	2.52	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Leucine	1.19	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Leucine	3.02	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Leucine	3.09	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Leucine	16.52	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Leucine	3.21	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Leucine	5.62	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Leucine	0.98	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Leucine	0.78	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Leucine	1.46	mg/g dry matter	NOSHAN

Yoghurt	Yoghurt		Proximates	Leucine	18.29	mg/g dry matter	NOSHAN
Canola	Canola meal	Average of analysed values	Proximates	Leucine	25.9	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Rape	Rapeseed hulls	Purified	Proximates	Leucine	9	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Fish, unspecified	Fish meal		Proximates	Leucine	55.4	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Leucine	32.2	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Leucine	25.5	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Leucine	25.5	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Leucine	26	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Cabbage	Cabbage meal		Proximates	Leucine	9.6	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Citrus, unspecified	Citrus pulp, dried		Proximates	Leucine	3.46	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Leucine	3.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Leucine	27.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Leucine	26.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Leucine	28.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Leucine	25.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Leucine	25	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Leucine	28.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Leucine	27	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Leucine	25.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Leucine	27.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Leucine	26.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Leucine	32.1	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Leucine	25.5	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Nuts, unspecified	Nut meal	Babacu	Proximates	Leucine	10.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Proximates	Leucine	15.6	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cassava	Cassava meal		Proximates	Leucine	1.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Proximates	Leucine	15.8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Proximates	Leucine	78.1	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cotton	Cottonseed meal	solv	Proximates	Leucine	23.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Proximates	Leucine	58	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Proximates	Leucine	23.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Rice	Rice bran	Defatted	Proximates	Leucine	10.3	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Proximates	Leucine	31.7	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Proximates	Leucine	11.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Wheat	Wheat bran		Proximates	Leucine	9.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Canola	Juncea canola meal		Proximates	Leucine	28.1	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Rye	Seed residue		Proximates	Leucine	5.98	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Leucine	6.02	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Leucine	7.29	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Leucine	7.91	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Leucine	5.43	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Leucine	6.27	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Leucine	6.45	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Leucine	6.8	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Distillery by-products, unspecified	Distillers solids		Proximates	Leucine	73	g/160g nitrogen	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Barley	Barley		Proximates	Leucine	74	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs

Soy	Soybean meal	Soyabean meal	Proximates	Leucine	71	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Leucine	73	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Leucine	114	a AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Leucine	100	a AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Leucine	6.43	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Leucine	6.42	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Leucine	6.34	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Leucine	10.31	% protein	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Leucine	7.21	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Leucine	8.15	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Leucine	7.22	% protein	Chemical characterization of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Leucine	9.1	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Leucine	6.4	% protein	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Leucine	12.9	% protein	Feedipedia

Palm	Oil palm leaflets	Fresh	Proximates	Leucine	7.7	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Leucine	7.1	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Leucine	7.5	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Leucine	8.2	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Leucine	9.1	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Leucine	7.7	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Leucine	5.2	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Leucine	11.6	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Leucine	12	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Leucine	10.6	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Leucine	12	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Leucine	6.7	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Leucine	6.7	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Leucine	7	% protein	Feedipedia

Rice	Rice bran	Defatted, fibre <11%	Proximates	Leucine	7.2	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Leucine	7	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Leucine	7.5	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Leucine	8.2	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Leucine	13.2	% protein	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Leucine	8	% protein	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Leucine	12.8	% protein	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Leucine	5	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Leucine	13.3	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Leucine	13.7	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Leucine	12.4	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Leucine	12.2	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Leucine	12.3	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Leucine	6	% protein	Feedipedia

Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Leucine	6.6	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Leucine	3.4	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Leucine	5.7	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Leucine	6.5	% protein	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Leucine	6.5	% protein	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Leucine	6.8	% protein	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Leucine	6.4	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Leucine	6.1	% protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Leucine	5.9	% protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Leucine	4	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Leucine	5.6	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Leucine	5.9	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Leucine	5.9	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Leucine	5.5	% protein	Feedipedia

Grape	Grape seeds		Proximates	Leucine	6	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Leucine	6	% protein	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Leucine	5.8	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Leucine	6.4	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Leucine	7.1	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Leucine	8.3	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Leucine	8	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Leucine	6.7	% protein	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Leucine	6.3	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Leucine	6.2	% protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Leucine	6.5	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Leucine	4.9	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Leucine	5.5	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Leucine	7.1	% protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Leucine	6.3	% protein	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Leucine	5.9	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Leucine	6.6	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Leucine	6.5	% protein	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Leucine	5.9	% protein	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Leucine	6.6	% protein	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Leucine	5.7	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Leucine	0.6	% protein	Feedipedia
Pumpkin	Pumpkin seeds	Cucurbita sp.	Proximates	Leucine	5.4	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Leucine	6.8	% protein	Feedipedia

Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Leucine	7.1	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Leucine	6.9	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Leucine	7.3	% protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Leucine	4.9	% protein	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Leucine	5.5	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Leucine	6.6	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Leucine	6.1	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Leucine	5.9	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Leucine	6	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Leucine	7.5	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Leucine	7.7	% protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Leucine	7.7	% protein	Feedipedia

Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Leucine	7.5	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Leucine	7.8	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Leucine	7.5	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Leucine	7.4	% protein	Feedipedia
Sunflower	Sunflower screenings		Proximates	Leucine	4.6	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Leucine	6.2	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Leucine	6.2	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Leucine	6.2	% protein	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Leucine	6	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Leucine	6	% protein	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Leucine	7.6	% protein	Feedipedia

Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Leucine	5.3	% protein	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Leucine	4.6	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Leucine	7.1	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Leucine	5.7	% protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Leucine	4.3	% protein	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Leucine	4	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Leucine	4.7	% protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Leucine	8.5	% protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Leucine	5.8	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Leucine	3.8	% protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Leucine	8	% protein	Feedipedia

Grape	Grape pomace, dried	Dehydrated	Proximates	Leucine	6.8	% protein	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Leucine	5.5	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Leucine	3	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Leucine	2.6	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Leucine	4.6	% protein	Feedipedia
Potato	Potato peel	Fresh	Proximates	Leucine	3.1	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Leucine	5.1	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Leucine	6.4	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Leucine	5.1	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Leucine	6.5	% protein	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Leucine	3.2	% protein	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Leucine	6.8	% protein	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Leucine	8.6	% protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Leucine	8.2	% protein	Feedipedia

Potato	Sweet potato leaf protein concentrate		Proximates	Leucine	9.8	% protein	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Leucine	5.3	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Leucine	5.4	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Leucine	6.4	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Leucine	1.2	% protein	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Leucine	5.2	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Leucine	5.7	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Leucine	0.7	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Leucine	0.5	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Leucine	0.3	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Leucine	1.9	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Leucine	8.2	% protein	Feedipedia

Animal by-products, unspecified	Blood meal		Proximates	Leucine	12.1	% protein	Feedipedia
Animal by-products, unspecified	Blood meal	Chicken	Proximates	Leucine	10.5	% protein	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Leucine	3.5	% protein	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Leucine	14.9	% protein	Feedipedia
Poultry	Feather meal		Proximates	Leucine	8	% protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Leucine	7	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Leucine	7.2	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Leucine	7.5	% protein	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Leucine	7.4	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Leucine	6.8	% protein	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Leucine	3.7	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Leucine	6.1	% protein	Feedipedia
Poultry	Hatchery by product		Proximates	Leucine	6.1	% protein	Feedipedia

Beef	Cattle hoof and horn meal		Proximates	Leucine	9.1	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Leucine	3.1	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Leucine	3.3	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Leucine	8.4	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Leucine	8.7	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Poultry	Proximates	Leucine	8.3	% protein	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Leucine	2.6	% protein	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Leucine	4.6	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Leucine	6	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Leucine	6.2	% protein	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Leucine	7	% protein	Feedipedia

Beef	Rumen content	Dehydrated	Proximates	Leucine	6.6	% protein	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Leucine	2.4	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Leucine	6.6	% protein	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Leucine	7.3	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Leucine	6.9	% protein	Feedipedia
Snail	Snail meal	Without shells	Proximates	Leucine	8.4	% protein	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Leucine	3.7	% protein	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Leucine	3.3	% protein	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Leucine	3.4	% protein	Feedipedia
Whale	Whale meal		Proximates	Leucine	7.6	% protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Leucine	8.8	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Leucine	7	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Leucine	6.2	% protein	Feedipedia

Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Leucine	8.5	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Leucine	6.5	% protein	Feedipedia
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Leucine	2.42	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Leucine	10.99	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Hop	Hops		Proximates	Leucine	0.18	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Leucine	0.35	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Leucine	1.42	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Leucine	3.19	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Leucine	0.86	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Leucine	2.56	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Leucine	0.22	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Leucine	0.55	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Leucine	0.69	mg/g DM	NOSHAN

Rape	Rapeseed press cake		Proximates	Leucine	0.1	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Leucine	0.07	mg/g DM	NOSHAN
Apple	Apple pomace		Proximates	Leucine	0	% D AA	NOSHAN
Orange	Orange peel	Orange	Proximates	Leucine	0	% D AA	NOSHAN
Cheese	Whey	Milk	Proximates	Leucine	0	% D AA	NOSHAN
Hop	Hops		Proximates	Leucine	0	% D AA	NOSHAN
Apple	Apple cake		Proximates	Leucine	0	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Leucine	1.02	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Leucine	1.8	% D AA	NOSHAN
Cabbage	Cabbage		Proximates	Leucine	0	% D AA	NOSHAN
Cheese	Cheese	Hard	Proximates	Leucine	1.14	% D AA	NOSHAN
Cheese	Cheese	Soft	Proximates	Leucine	1.65	% D AA	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Leucine	4.25	% D AA	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Leucine	0	% D AA	NOSHAN
Grape	Grape pomace		Proximates	Leucine	0	% D AA	NOSHAN
Barley	Malted barley germs		Proximates	Leucine	1.93	% D AA	NOSHAN
Barley	Malted barley germs		Proximates	Leucine	0	% D AA	NOSHAN
Mushrooms	Mushrooms		Proximates	Leucine	0	% D AA	NOSHAN

Olive	Olive pomace		Proximates	Leucine	0	% D AA	NOSHAN
Onion	Onion hulls		Proximates	Leucine	0	% D AA	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Leucine	0	% D AA	NOSHAN
Potato	Potato	Selected	Proximates	Leucine	0	% D AA	NOSHAN
Potato	Potato skin		Proximates	Leucine	0	% D AA	NOSHAN
Rape	Rapeseed press cake		Proximates	Leucine	0	% D AA	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Leucine	0	% D AA	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Leucine	2.98	% D AA	NOSHAN
Tomatoes	Tomato skin		Proximates	Leucine	0	% D AA	NOSHAN
Apple	Apple	Whole	Proximates	Leucine	0	% D AA	NOSHAN
Pears	Pear	Whole	Proximates	Leucine	0	% D AA	NOSHAN
Yoghurt	Yoghurt		Proximates	Leucine	0	% D AA	NOSHAN
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Leucine	22.4	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)

Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Leucine	9.16	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Leucine	8	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Leucine	7.33	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Leucine	9.61	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Leucine	9.31	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Freshwater fish silage	Acid	Proximates	Leucine	7.57	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Leucine	10.32	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Leucine	6.72	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Leucine	6.23	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Leucine	23.0	g/kg DM	Nutritive value of plantain and chicory for pigs

Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Leucine	12.7	g/kg DM	Nutritive value of plantain and chicory for pigs
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Leucine	266.23	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Leucine	341.04	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Leucine	6.5	g/16g N	Feedipedia
Sunflower	Sunflower oil cake	By-product. Helianthus annuus (seed)	Proximates	Lignin	13	% DM	Cropgen database

Sugar by-products, unspecified	Bagasse		Proximates	Lignin	25.1	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Proximates	Lignin	17.9	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Olive	Olive stones	Crude	Proximates	Lignin	27.2	% DM	Adsorption of iron on crude olive stones

Olive	Olive tree pruning	Biomass	Proximates	Lignin	17.8	% DM	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass
Sunflower	Sunflower oil cake		Proximates	Lignin	13	% DM	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake
Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Proximates	Lignin	13	% DM	Cropgen database

Sugar cane	Sugar cane bagasse		Proximates	Lignin	26.6	% DM	Combined ethanol and methane production using steam pretreated sugarcane bagasse
Rice	Rice husk	Variety: Lemont LG	Proximates	Lignin	20	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: ROK 14	Proximates	Lignin	18.8	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: CP4	Proximates	Lignin	24.6	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis

Rice	Rice husk	Variety: Pa Potho	Proximates	Lignin	18.2	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Sugar beet	Sugar beet pulp		Proximates	Lignin	1.92	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Lignin	1.53	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Sugar beet	Sugar beet pulp		Proximates	Lignin	1.12	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Lignin	3.1	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Lignin	4.31	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Rice	Rice bran		Proximates	Lignin	3.41	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Lignin	9.2	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Lignin	8.47	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Almond	Almond hulls		Proximates	Lignin	12.75	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Lignin	0.99	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Lignin	0.78	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Citrus, unspecified	Citrus pulp		Proximates	Lignin	0.88	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Lignin	2.21	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Lignin	1.86	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Bakery	Bakery waste		Proximates	Lignin	1.69	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Lignin	3.78	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Lignin	3.98	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Wheat	Wheat mill run		Proximates	Lignin	2.69	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Lignin	4.66	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Lignin	4.02	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Lignin	6.17	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Lignin	3.24	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Lignin	4.63	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Distillers grain	Distillers grain		Proximates	Lignin	6.35	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar by-products, unspecified	Bagasse		Proximates	Lignin	23.9	% DM	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Rice	Rice straw		Proximates	Lignin	4.8	% DM	Feedipedia
Rice	Rice straw	Urea-treated	Proximates	Lignin	5.2	% DM	Feedipedia
Sugar cane	Sugar cane leaves	Fresh	Proximates	Lignin	5.5	% DM	Feedipedia
Sugar cane	Sugar cane leaves, dried	Dry	Proximates	Lignin	5.7	% DM	Feedipedia
Wheat	Triticale grain		Proximates	Lignin	1.1	% DM	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Lignin	3.8	% DM	Feedipedia
Wheat	Wheat hay		Proximates	Lignin	5.6	% DM	Feedipedia
Wheat	Wheat straw		Proximates	Lignin	7.2	% DM	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Lignin	4.6	% DM	Feedipedia

Palm	Oil palm fronds	Fresh	Proximates	Lignin	20.1	% DM	Feedipedia
Palm	Oil palm fronds, dried	Dried, Elaeis guineensis	Proximates	Lignin	19.9	% DM	Feedipedia
Palm	Oil palm fronds	Silage	Proximates	Lignin	13.2	% DM	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Lignin	12.2	% DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Lignin	5.9	% DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Lignin	3.8	% DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Lignin	5.1	% DM	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Lignin	1.5	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Lignin	5.4	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Lignin	5.7	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Lignin	5	% DM	Feedipedia
Rice	Rice grain	Polished	Proximates	Lignin	0.8	% DM	Feedipedia
Rice	Rice grain	Brown	Proximates	Lignin	2	% DM	Feedipedia

Barley	Barley rootlets	Dehydrated	Proximates	Lignin	1.7	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Lignin	4.3	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Lignin	3.1	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Lignin	2.3	% DM	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Lignin	4.8	% DM	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Lignin	1.2	% DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Lignin	4.1	% DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Lignin	6.8	% DM	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Lignin	11	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Lignin	4.5	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Lignin	6.3	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Lignin	11.8	% DM	Feedipedia
Rice	Rice hull		Proximates	Lignin	14.2	% DM	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Lignin	5.4	% DM	Feedipedia

Sorghum	Sorghum bran and milling offal		Proximates	Lignin	5	% DM	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Lignin	19.5	% DM	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Lignin	1.1	% DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Lignin	2.9	% DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Lignin	1.9	% DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Lignin	0.5	% DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Lignin	0.6	% DM	Feedipedia
Wheat	Wheat starch		Proximates	Lignin	0.1	% DM	Feedipedia
Wheat	Wheat bran		Proximates	Lignin	3.8	% DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Lignin	4.6	% DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Lignin	2.5	% DM	Feedipedia
Wheat	Wheat germs		Proximates	Lignin	1	% DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Proximates	Lignin	10.8	% DM	Feedipedia
Wheat	Wheat grain		Proximates	Lignin	1.1	% DM	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Lignin	1.2	% DM	Feedipedia
Wheat	Wheat screenings		Proximates	Lignin	1.4	% DM	Feedipedia

Nuts, unspecified	Nut kernels	Almond	Proximates	Lignin	0.7	% DM	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Proximates	Lignin	7.2	% DM	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Proximates	Lignin	1.5	% DM	Feedipedia
Argan	Argan oil cake	Solvent-extracted, Argania spinosa	Proximates	Lignin	1.1	% DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Lignin	2.9	% DM	Feedipedia
Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Lignin	14.9	% DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Lignin	17.4	% DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Lignin	18.5	% DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Lignin	13.4	% DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Lignin	6.7	% DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Lignin	8	% DM	Feedipedia
Cotton	Cotton straw		Proximates	Lignin	16.8	% DM	Feedipedia

Cotton	Cotton leaves	Fresh	Proximates	Lignin	6.5	% DM	Feedipedia
Cotton	Cottonseed hulls		Proximates	Lignin	19.1	% DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Lignin	6.1	% DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Lignin	5.4	% DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Lignin	7.4	% DM	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Lignin	8.1	% DM	Feedipedia
Flax/linseed	Flax straw		Proximates	Lignin	15.5	% DM	Feedipedia
Flax/linseed	Flax chaff		Proximates	Lignin	6.8	% DM	Feedipedia
Flax/linseed	Flax shives		Proximates	Lignin	23.5	% DM	Feedipedia
Flax/linseed	Flax, aerial part	Fresh	Proximates	Lignin	12.1	% DM	Feedipedia
Grape	Grape seeds		Proximates	Lignin	45.1	% DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Lignin	48.5	% DM	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Proximates	Lignin	34.7	% DM	Feedipedia
Flax/linseed	Linseed meal		Proximates	Lignin	6.2	% DM	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Lignin	4.9	% DM	Feedipedia
Flax/linseed	Linseeds		Proximates	Lignin	5	% DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Lignin	2.4	% DM	Feedipedia

Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Lignin	2.7	% DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Lignin	1.5	% DM	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Lignin	2.5	% DM	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Lignin	2.2	% DM	Feedipedia
Palm	Oil palm kernels		Proximates	Lignin	13.2	% DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Lignin	27.2	% DM	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Lignin	23.7	% DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Lignin	27	% DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Proximates	Lignin	22.7	% DM	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Lignin	20.6	% DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Lignin	21.1	% DM	Feedipedia
Olive	Olive oil vegetation water		Proximates	Lignin	0.6	% DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Lignin	13.4	% DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Lignin	12.8	% DM	Feedipedia
Palm	Palm oil mill effluent	Decanted	Proximates	Lignin	7.6	% DM	Feedipedia

Palm	Oil palm mill effluent, dried	Dried	Proximates	Lignin	8.4	% DM	Feedipedia
Palm	Palm press fibre	High oil	Proximates	Lignin	14.3	% DM	Feedipedia
Palm	Palm press fibre	Low oil	Proximates	Lignin	16	% DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Lignin	10.2	% DM	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Lignin	8.9	% DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Lignin	22.4	% DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Lignin	2.8	% DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Lignin	5.9	% DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Lignin	2.7	% DM	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Lignin	2.2	% DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Proximates	Lignin	10.6	% DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Lignin	13.6	% DM	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Lignin	12.5	% DM	Feedipedia

Pumpkin	Pumpkin	Fruits, dried, Cucurbita sp.	Proximates	Lignin	1.7	% DM	Feedipedia
Rape	Rape straw		Proximates	Lignin	10.8	% DM	Feedipedia
Rape	Rapeseed hulls		Proximates	Lignin	23.5	% DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Lignin	9.5	% DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Lignin	9.1	% DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Lignin	8.7	% DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Lignin	6.3	% DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Lignin	1.7	% DM	Feedipedia
Sesame	Sesame seeds	Whole	Proximates	Lignin	2.2	% DM	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Lignin	5.8	% DM	Feedipedia
Soy	Soybean hay		Proximates	Lignin	7	% DM	Feedipedia
Soy	Soybean straw		Proximates	Lignin	16.4	% DM	Feedipedia
Soy	Soybean hulls		Proximates	Lignin	2.3	% DM	Feedipedia

Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Lignin	0.8	% DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Lignin	0.5	% DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Lignin	0.5	% DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Lignin	1.2	% DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Lignin	0.6	% DM	Feedipedia
Soy	Soybeans	Toasted	Proximates	Lignin	0.8	% DM	Feedipedia
Soy	Soybeans	Extruded	Proximates	Lignin	0.8	% DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Lignin	9.7	% DM	Feedipedia
Sunflower	Sunflower forage	Silage	Proximates	Lignin	11.2	% DM	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Proximates	Lignin	15.7	% DM	Feedipedia
Sunflower	Sunflower heads	Without seeds	Proximates	Lignin	9.9	% DM	Feedipedia
Sunflower	Sunflower hulls		Proximates	Lignin	22.2	% DM	Feedipedia
Sunflower	Sunflower screenings		Proximates	Lignin	20.9	% DM	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Lignin	10.7	% DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Lignin	8.6	% DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Lignin	11.2	% DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Lignin	10	% DM	Feedipedia
Sunflower	Sunflower seeds		Proximates	Lignin	6.3	% DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Proximates	Lignin	7	% DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Lignin	26.8	% DM	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Lignin	15.7	% DM	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Lignin	1.8	% DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Lignin	3.2	% DM	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Proximates	Lignin	4.7	% DM	Feedipedia

Banana	Banana fruits, dried	Immature, without peel, dehydrated	Proximates	Lignin	2.7	% DM	Feedipedia
Banana	Banana leaves, dried	Dehydrated	Proximates	Lignin	8.2	% DM	Feedipedia
Banana	Banana stalks	Fresh	Proximates	Lignin	8.8	% DM	Feedipedia
Banana	Banana	Aerial part, fresh	Proximates	Lignin	8.5	% DM	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Proximates	Lignin	4.5	% DM	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Lignin	2.6	% DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Lignin	2.7	% DM	Feedipedia
Orange	Orange pulp	Fresh	Proximates	Lignin	1.4	% DM	Feedipedia
Orange	Orange pulp	Clementine, fresh	Proximates	Lignin	1.2	% DM	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Lignin	2.1	% DM	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Lignin	1.8	% DM	Feedipedia
Coffee	Coffee hulls		Proximates	Lignin	16.3	% DM	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Lignin	9.1	% DM	Feedipedia
Coffee	Instant coffee by product		Proximates	Lignin	22.6	% DM	Feedipedia
Coffee	Coffee oil meal	By product of essential oil extraction	Proximates	Lignin	13	% DM	Feedipedia

Date	Date palm fruits	Phoenix dactylifera	Proximates	Lignin	7.8	% DM	Feedipedia
Date	Date palm, pulp	Pulp, high ash, Phoenix dactylifera	Proximates	Lignin	7.4	% DM	Feedipedia
Date	Date palm leaves	Fresh	Proximates	Lignin	22	% DM	Feedipedia
Date	Date palm leaves, dried	Dry	Proximates	Lignin	14.6	% DM	Feedipedia
Date	Date palm pedicels		Proximates	Lignin	10.3	% DM	Feedipedia
Date	Date palm flower stems		Proximates	Lignin	14.7	% DM	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Lignin	33.4	% DM	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Lignin	30.7	% DM	Feedipedia
Grape	Grape pomace	Silage	Proximates	Lignin	36.2	% DM	Feedipedia
Melon	Melon seeds	Cucumis melo	Proximates	Lignin	8.6	% DM	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Lignin	3.9	% DM	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Lignin	19.5	% DM	Feedipedia
Tomatoes	Tomato plant	Fresh, whole plant	Proximates	Lignin	12.8	% DM	Feedipedia

Tomatoes	Tomato, leaves	Fresh	Proximates	Lignin	17	% DM	Feedipedia
Tomatoes	Tomato, stems	Fresh	Proximates	Lignin	10.1	% DM	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Lignin	1	% DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Lignin	3	% DM	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Lignin	1.3	% DM	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Lignin	2.4	% DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Lignin	2.7	% DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Lignin	1.8	% DM	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Proximates	Lignin	1.6	% DM	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Lignin	1.9	% DM	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Proximates	Lignin	5.5	% DM	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Proximates	Lignin	74.1	% DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Lignin	8.3	% DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Lignin	11.3	% DM	Feedipedia

Potato	Sweet potato	Tubers, fresh	Proximates	Lignin	1.1	% DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Lignin	0.7	% DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Lignin	2.4	% DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Lignin	12.5	% DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Lignin	10.6	% DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Urea-treated, dehydrated	Proximates	Lignin	13.4	% DM	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Lignin	0.3	% DM	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Lignin	5.6	% DM	Feedipedia
Sugar cane	Sugar cane tops	Silage	Proximates	Lignin	5.8	% DM	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Lignin	8.5	% DM	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Proximates	Lignin	10.5	% DM	Feedipedia
Poultry	Feather meal		Proximates	Lignin	5.5	% DM	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Lignin	14.5	% DM	Feedipedia

Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Lignin	7.9	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Lignin	0.8	% DM	Feedipedia
Corn	Maize starch		Proximates	Lignin	0	% DM	Feedipedia
Cassava	Cassava starch		Proximates	Lignin	0.1	% DM	Feedipedia
Wheat	Wheat	Whole crop. Flowering cultivar Phelivan	Proximates	Lignin	7.5	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Phelivan	Proximates	Lignin	9.4	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Dough cultivar Phelivan	Proximates	Lignin	9.9	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Flowering cultivar Gonen	Proximates	Lignin	8.1	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Gonen	Proximates	Lignin	9.7	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Dough cultivar Gonen	Proximates	Lignin	10.2	% DM	ECN Phyllis 2
Banana	Banana pintoza		Proximates	Lignin	11.1	% DM	ECN Phyllis 2

Hop	Hops		Proximates	Lignin	24.5	% DM	ECN Phyllis 2
Hop	Hops	Bast	Proximates	Lignin	10.5	% DM	ECN Phyllis 2
Pineapple	Pineapple		Proximates	Lignin	4.6	% DM	ECN Phyllis 2
Sugar cane	Sugar cane		Proximates	Lignin	17	% DM	ECN Phyllis 2
Potato	Potato mash		Proximates	Lignin	2.32	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Proximates	Lignin	38.2	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Proximates	Lignin	27.2	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Proximates	Lignin	20.4	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Lignin	32.5	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Lignin	32.7	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Lignin	33.5	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Lignin	34	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin	36	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin	37.1	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin	35.4	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin	44.8	% DM	ECN Phyllis 2

Coconut	Coconut husk		Proximates	Lignin	34.9	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Lignin	38.3	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Lignin	38	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Lignin	59.5	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Lignin	53.3	% DM	ECN Phyllis 2
Coconut	Coconut shell	Coconuts shells from Madal, Mozambique	Proximates	Lignin	30	% DM	ECN Phyllis 2
Coconut	Coconut shell	Charcoal yield 41.4% at 1 MPa, fixed-C yield 30.1%	Proximates	Lignin	34.9	% DM	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Lignin	35.72	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 4.2% (obtained with extraction with acetone/water)	Proximates	Lignin	42.5	% DM	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Proximates	Lignin	42.9	% DM	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Proximates	Lignin	51.5	% DM	ECN Phyllis 2

Nuts, unspecified	Nut seedcoat	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 19.6% (obtained with extraction with alcohol/benzene)	Proximates	Lignin	53	% DM	ECN Phyllis 2
Olive	Olive cake		Proximates	Lignin	28.13	% DM	ECN Phyllis 2
Olive	Olive husk	Biochemical composition on extractive free basis. Concentration of extractives: 8.1% (obtained with extraction with alcohol/benzene)	Proximates	Lignin	48.4	% DM	ECN Phyllis 2
Olive	Olive husk		Proximates	Lignin	45	% DM	ECN Phyllis 2

Olive	Olive husk	Extractives 8.1%; compositions and heating values of char and pyrolysis oil in ID = 2264 and 2265	Proximates	Lignin	45	% DM	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Proximates	Lignin	48.4	% DM	ECN Phyllis 2
Olive	Olive pits		Proximates	Lignin	31.2	% DM	ECN Phyllis 2
Olive	Olive pits	Ethanol/benzene extractives 1.5%, alpha-cellulose 28%, pentosan 18.5%	Proximates	Lignin	25.3	% DM	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Lignin	3	% DM	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Lignin	11.1	% DM	ECN Phyllis 2
Apricot	Apricot stones	Apricot stones as waste product of canning industry, Bulgaria	Proximates	Lignin	37.00	% DM	ECN Phyllis 2

Corn	Corn bran		Proximates	Lignin	1	% DM	ECN Phyllis 2
Cotton	Cottonseed hulls		Proximates	Lignin	24	% DM	ECN Phyllis 2
Cotton	Cottonseed	Black	Proximates	Lignin	15	% DM	ECN Phyllis 2
Cotton	Cottonseed	High lint	Proximates	Lignin	16	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Proximates	Lignin	40.1	% DM	ECN Phyllis 2
Millet	Millet husk		Proximates	Lignin	14	% DM	ECN Phyllis 2
Babassu	Babassu cake		Proximates	Lignin	26.58	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Canola	Canola cake		Proximates	Lignin	6.53	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Castor	Castor seed cake		Proximates	Lignin	9.85	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower cake		Proximates	Lignin	7.72	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Rape	Rapeseed straw	Brassica rapa spp. Oleifera	Proximates	Lignin	20.4	% total solids	Cropgen database
Sugar beet	Sugar beet tops	Residual	Proximates	Lignin	9.8	% total solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: pasty	Proximates	Lignin	5.75	% total solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: milky	Proximates	Lignin	5.75	% total solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: flowering	Proximates	Lignin	5.75	% total solids	Cropgen database
Palm	Palm empty fruit bunches	Oil palm empty fruit bunches before hydrothermal pretreatment	Proximates	Lignin	16.6	% w/w	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion

Palm	Palm empty fruit bunches	Oil palm empty fruit bunches fibres after hydrothermal pretreatment	Proximates	Lignin	37.2	% w/w	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion
Grape	Grape seeds	White, Italian	Proximates	Lignin	416	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Red, Italian	Proximates	Lignin	437	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Californian	Proximates	Lignin	371	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Not ensiled	Proximates	Lignin	387	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Ensiled for 45 days	Proximates	Lignin	428	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	White, Italian	Proximates	Lignin	261	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Red, Italian	Proximates	Lignin	242	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Californian	Proximates	Lignin	175	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Not ensiled	Proximates	Lignin	206	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Ensiled for 45 days	Proximates	Lignin	246	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Pears	Pear pomace		Proximates	Lignin	196.6	g/kg DM	Comparative study of alkaline extraction process of hemicelluloses from pear pomace
Apple	Apple		Proximates	Lignin	0.075	g/g volatile solids	Cropgen database
Banana	Banana		Proximates	Lignin	0.174	g/g volatile solids	Cropgen database

Rape	Oil seed rape	Brassica napus, growth stage at harvest: reproductive stage (pod filled)	Proximates	Lignin	0.08	g/g volatile solids	Cropgen database
Orange	Orange		Proximates	Lignin	0.04	g/g volatile solids	Cropgen database
Potato	Potato		Proximates	Lignin	0.019	g/g volatile solids	Cropgen database
Banana	Banana	Musa paradisiaca, growth stage at harvest: peeling	Proximates	Lignin	0.133	g/g volatile solids	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Proximates	Lignin	0.067	g/g volatile solids	Cropgen database
Wheat	Wheat	Triticum aestivum, growth stage at harvest: straw	Proximates	Lignin	0.103	g/g volatile solids	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Proximates	Lignin	12.1	% w/w	Cropgen database
Rape	Rape	Brassica napus, growth stage: tops	Proximates	Lignin	16.5	% w/w	Cropgen database

Sugar beet	Sugar beet	Beta vulgaris	Proximates	Lignin	16.2	% w/w	Cropgen database
Cabbage	Cabbage leaves	White. Brassica oleracea var. capitata	Proximates	Lignin	13.9	% w/w	Cropgen database
Banana	Banana peel	Musa acuminata	Proximates	Lignin	15	% w/w	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Green	Proximates	Lignin	7	% w/w	Utilization of fruit and vegetable wastes, FAO
Olive	Olive tree pruning	Liquid fraction derived from organosolv pretreatment	Proximates	Lignin	14.05	g/L	Biorefining of olive tree (Olea europea) pruning
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Lignin	177	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Lignin	57	g/kg DM	Nutritive value of plantain and chicory for pigs

Apple	Apple pomace, dried		Proximates	Lignin	20.4	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Potato	Potato peel		Proximates	Lignin	14.2	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Tomatoes	Tomato pomace		Proximates	Lignin	5.3	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Proximates	Lignin	20.68	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Proximates	Lignin	13.30	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rape	Rape straw	490 fully ripe rape straw samples collected in China	Proximates	Lignin	15.09	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Proximates	Lignin	22.03	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Citrus, unspecified	Citrus pulp, dried		Proximates	Lignin (sa)	9	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Proximates	Lignin (sa)	30	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Lignin (sa)	21	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Fresh	Proximates	Lignin (sa)	13	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Lignin (sa)	5	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp	Fresh	Proximates	Lignin (sa)	18	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon, dried	Whole	Proximates	Lignin (sa)	26	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Bergamot peel		Proximates	Lignin (sa)	27	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp	Fresh	Proximates	Lignin (sa)	19	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Mandarin, fresh	Proximates	Lignin (sa)	21	g/kg DM	Citrus by-products as ruminant feeds: A review
Canola	Canola meal	Average of analysed values	Proximates	Lignin and polyphenols	107	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Lignin, Klason	15.4	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Lignin, Klason	7.94	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Lignin, Klason	31.62	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Lignin, Klason	28.38	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Lignin, Klason	36.06	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Sugar beet	Sugar beet molasses	From pulp	Proximates	Lignin, Klason	32	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Lignin, Klason	30	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Lignin, Klason	nd	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Rye	Seed residue		Proximates	Lignin, Klason	124	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Lignin, Klason	9	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Lignin, Klason	126	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Fruit and vegetables, unspecified	Pectin residue		Proximates	Lignin, Klason	130	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Lignin, Klason	35	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Lignin, Klason	37	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Wheat	Wheat		Proximates	Lignin, Klason	11	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Lignin, Klason	35	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pears	Pear pomace		Proximates	Lignin, Klason	259.6	g/kg DM	Comparative study of alkaline extraction process of hemicelluloses from pear pomace

Distillers grain	Distillers grain	Corn, with solubles	Proximates	Lignin, Klason	25	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Lignin, Klason	66	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Lignin, Klason	82	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Nuts, unspecified	Nut shells	Almond	Proximates	Lignin, Klason	237	g/kg DM	Development of an integrated pretreatment fractionation process for fermentable sugars and lignin, application to almond shell
Banana	Banana bunch		Proximates	Lignin, Klason	14.28	% DM	Binderless fiberboard from steam exploded banana bunch

Sugar cane	Sugar cane bagasse		Proximates	Lignin, Klason	17.8	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw
Sugar cane	Sugar cane straw		Proximates	Lignin, Klason	17	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw
Banana	Banana		Proximates	Lignin, Klason	17.44	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sugar cane	Sugar cane bagasse		Proximates	Lignin, Klason	23.33	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil

Sponge gourd	Sponge gourd fibers		Proximates	Lignin, Klason	15.46	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Grape	Grape stalks		Proximates	Lignin, Klason	17.4	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Grape	Grape pomace	Skin and seeds, white grape	Proximates	Lignin, acid detergent	394	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape pomace	Skin and seeds, red grape	Proximates	Lignin, acid detergent	446	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants

Grape	Grape marc	Grape marc from Gonzlez-Byass	Proximates	Lignin, acid detergent	388	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc	Grape marc from Movialsa	Proximates	Lignin, acid detergent	370	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape vine shoot		Proximates	Lignin, acid detergent	166	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	White	Proximates	Lignin, acid detergent	107	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Red	Proximates	Lignin, acid detergent	97.1	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Sherry	Proximates	Lignin, acid detergent	28.4	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape marc and lees		Proximates	Lignin, acid detergent	352	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Lignin, acid detergent	7-13	% DM	Utilization of fruit and vegetable wastes, FAO
Soy	Soybean meal	Soya bean	Proximates	Lignin, acid detergent	9	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed cake		Proximates	Lignin, acid detergent	81	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Lignin, acid detergent	328	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Lignin, acid detergent	190	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Potato	Potato peel	A review of different publications	Proximates	Lignin, acid detergent	38.0	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	A review of different publications	Proximates	Lignin, acid detergent	35	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Olive	Olive tree pruning	Biomass	Proximates	Lignin, acid insoluble	16.6	AIL	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass
Olive	Olive tree pruning		Proximates	Lignin, acid insoluble	17.9	%	Biorefining of olive tree (Olea europea) pruning
Olive	Olive tree pruning	Solid fraction from organosolv pretreatment	Proximates	Lignin, acid insoluble	15.8	%	Biorefining of olive tree (Olea europea) pruning

Olive	Olive tree pruning	Solid fraction after bioethanol production	Proximates	Lignin, acid insoluble	41.2	%	Biorefining of olive tree (Olea europea) pruning
Olive	Isolated lignin from olive tree pruning	By organosolv pretreatment	Proximates	Lignin, acid insoluble	71.9	%	Biorefining of olive tree (Olea europea) pruning
Sugar by-products, unspecified	Bagasse		Proximates	Lignin, acid insoluble	22.5	% DM	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Hop	Hops		Proximates	Lignin, acid insoluble	24	% DM	ECN Phyllis 2
Hop	Hops	Bast	Proximates	Lignin, acid insoluble	10	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Proximates	Lignin, acid insoluble	27.2	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Lignin, acid insoluble	31.5	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Lignin, acid insoluble	31.9	% DM	ECN Phyllis 2

Coconut	Coconut fibre		Proximates	Lignin, acid insoluble	32.4	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Lignin, acid insoluble	32.2	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Lignin, acid insoluble	33.8	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin, acid insoluble	35.4	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin, acid insoluble	36.6	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin, acid insoluble	34.7	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin, acid insoluble	44	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin, acid insoluble	34.6	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Lignin, acid insoluble	37.5	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Lignin, acid insoluble	37.3	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Lignin, acid insoluble	58.6	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Lignin, acid insoluble	52.1	% DM	ECN Phyllis 2
Coconut	Coconut shell	Charcoal yield 41.4% at 1 MPa, fixed-C yield 30.1%	Proximates	Lignin, acid insoluble	34.9	% DM	ECN Phyllis 2

Wheat	Wheat bran		Proximates	Lignin, acid insoluble	6.6	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Proximates	Lignin, acid insoluble	40.1	% DM	ECN Phyllis 2
Olive	Olive tree pruning		Proximates	Lignin, acid soluble	0.5	%	Biorefining of olive tree (Olea europea) pruning
Olive	Olive tree pruning	Solid fraction from organosolv pretreatment	Proximates	Lignin, acid soluble	1.1	%	Biorefining of olive tree (Olea europea) pruning
Olive	Olive tree pruning	Solid fraction after bioethanol production	Proximates	Lignin, acid soluble	1.24	%	Biorefining of olive tree (Olea europea) pruning
Olive	Isolated lignin from olive tree pruning	By organosolv pretreatment	Proximates	Lignin, acid soluble	1.63	%	Biorefining of olive tree (Olea europea) pruning

Sugar cane	Sugar cane bagasse		Proximates	Lignin, acid soluble	2.2	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw
Sugar cane	Sugar cane straw		Proximates	Lignin, acid soluble	1.9	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw
Sugar by-products, unspecified	Bagasse		Proximates	Lignin, acid soluble	1.4	% DM	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Hop	Hops		Proximates	Lignin, acid soluble	0.5	% DM	ECN Phyllis 2
Hop	Hops	Bast	Proximates	Lignin, acid soluble	0.5	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Lignin, acid soluble	1	% DM	ECN Phyllis 2

Coconut	Coconut fibre		Proximates	Lignin, acid soluble	0.8	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Lignin, acid soluble	0.3	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Lignin, acid soluble	0.2	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin, acid soluble	0.6	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin, acid soluble	0.5	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin, acid soluble	0.7	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin, acid soluble	0.8	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Lignin, acid soluble	0.3	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Lignin, acid soluble	0.8	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Lignin, acid soluble	0.7	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Lignin, acid soluble	0.9	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Lignin, acid soluble	1.2	% DM	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Lignin, acid soluble	4.5	% DM	ECN Phyllis 2

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; end pressure MPa: 0.5	Proximates	Lignin, soluble	1.3	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; O2 pressure MPa: 0.6; end pressure MPa: 1.0	Proximates	Lignin, soluble	1.5	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; end pressure MPa: 0.7	Proximates	Lignin, soluble	1.2	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; O2 pressure MPa: 0.6; end pressure MPa: 1.7	Proximates	Lignin, soluble	1.5	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; end pressure MPa: 1.1	Proximates	Lignin, soluble	1.3	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; O2 pressure MPa: 0.6; end pressure MPa: 1.9	Proximates	Lignin, soluble	1.7	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; end pressure MPa: 1.4	Proximates	Lignin, soluble	1.4	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; O2 pressure MPa: 0.6; end pressure MPa: 2.2	Proximates	Lignin, soluble	1.6	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; end pressure MPa: 0.5	Proximates	Lignin, total	6.2	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; O2 pressure MPa: 0.6; end pressure MPa: 1.0	Proximates	Lignin, total	6.9	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; end pressure MPa: 0.7	Proximates	Lignin, total	5.7	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; O2 pressure MPa: 0.6; end pressure MPa: 1.7	Proximates	Lignin, total	7.2	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; end pressure MPa: 1.1	Proximates	Lignin, total	6.2	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; O2 pressure MPa: 0.6; end pressure MPa: 1.9	Proximates	Lignin, total	8.1	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; end pressure MPa: 1.4	Proximates	Lignin, total	7.4	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; O2 pressure MPa: 0.6; end pressure MPa: 2.2	Proximates	Lignin, total	7.7	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Potato	Potato fibres	Pressed	Proximates	Lignin, total	4	g/100g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Orange	Orange peel	Orange	Waste compounds	Limonen	91.95	% in 0.6ml/100g	NOSHAN
Orange	Orange peel	C.sinensis. Origin: juice manufacturer	Waste compounds	Limonene	2.5	g/kg	Effect of limonene on batch anaerobic digestion of citrus peel waste

Lemon	Lemon peel	Selinunte	Waste compounds	Limonene	790.49	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Akragas	Waste compounds	Limonene	846.75	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femminello S	Waste compounds	Limonene	1099.83	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femm. Continella m 84	Waste compounds	Limonene	820.16	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Siracusano 2KR	Waste compounds	Limonene	1205.24	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm, Cerza	Waste compounds	Limonene	1143.31	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Iniasel 95	Waste compounds	Limonene	1549.74	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Fetnm. Fior d'Arancio m 79	Waste compounds	Limonene	1325.57	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Scandurca	Waste compounds	Limonene	956.00	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Sfusato Amalfitano	Waste compounds	Limonene	1426.38	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Kamahna	Waste compounds	Limonene	856.40	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Segesta	Waste compounds	Limonene	1693.91	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femm. Siracusano m 296	Waste compounds	Limonene	1498.94	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Siracusano m 296	Waste compounds	Limonene	1585.04	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Ovale di Sorrento	Waste compounds	Limonene	1107.06	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Ericc	Waste compounds	Limonene	1470.91	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Dosaco	Waste compounds	Limonene	122.87	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femminello Adamo	Waste compounds	Limonene	1609.82	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Orange	Orange peel	Orange	Waste compounds	Linalool	0.35	% in 0.6ml/100g	NOSHAN

Fish, unspecified	Fish meal		Proximates	Lipid	58	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Lipid	29	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Lipid	9	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Lipid	15	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Lipid	24	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Pears	Pear pomace		Proximates	Lipid	18.6	g/kg DM	Comparative study of alkaline extraction process of hemicelluloses from pear pomace

Beef	Solid cattle slaughterhouse wastes		Proximates	Lipid	175	g/kg	Anaerobic co-digestion of solid slaughterhouse wastes with agro-residues: Synergistic and antagonistic interactions determined in batch digestion assays
Babassu	Babassu cake		Proximates	Lipid	12.24	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Canola	Canola cake		Proximates	Lipid	13.05	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Castor	Castor seed cake		Proximates	Lipid	8.02	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower cake		Proximates	Lipid	2.75	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Apple	Apple		Proximates	Lipid	0.022	g/g volatile solids	Cropgen database
Banana	Banana		Proximates	Lipid	0.118	g/g volatile solids	Cropgen database
Carrot	Carrot		Proximates	Lipid	0.05	g/g volatile solids	Cropgen database
Orange	Orange		Proximates	Lipid	0.039	g/g volatile solids	Cropgen database
Potato	Potato		Proximates	Lipid	0.032	g/g volatile solids	Cropgen database
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Proximates	Lipid	15.1	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Proximates	Lipid	15.3	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Lipid, crude	2.09	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Lipid, crude	2.14	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Lipid, crude	2.13	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Potato	Potato peel		Proximates	Lipid, crude	0.6	%	Production of alkaline protease by a thermophilic Bacillus subtilis under solid-state fermentation (SSF) condition using Imperata cylindrica grass and potato peel as low-cost medium: Characterization and application of enzyme in detergent formulation
Apple	Apple pomace		Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN
Orange	Orange peel	Orange	Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN

Cheese	Whey	Milk	Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN
Grape	Grape pomace		Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN
Mushrooms	Mushrooms		Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN
Olive	Olive pomace		Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN
Tomatoes	Tomato skin		Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN

Apple	Apple	Whole	Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN
Pears	Pear	Whole	Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Listeria monocytogenes	0	cfu/25g	NOSHAN
Apple	Apple pomace		Inorganics	Lithium	0.04	ppm .d.b	NOSHAN
Orange	Orange peel	Orange	Inorganics	Lithium	<0.1	ppm .d.b	NOSHAN
Cheese	Whey	Milk	Inorganics	Lithium	<0.1	ppm .d.b	NOSHAN
Hop	Hops		Inorganics	Lithium	<0.1	ppm .d.b	NOSHAN
Apple	Apple cake		Inorganics	Lithium	<0.1	ppm .d.b	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Lithium	0.2	ppm .d.b	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Lithium	0.1	ppm .d.b	NOSHAN
Cabbage	Cabbage		Inorganics	Lithium	0.35	ppm .d.b	NOSHAN
Cheese	Cheese	Hard	Inorganics	Lithium	0.04	ppm .d.b	NOSHAN
Cheese	Cheese	Soft	Inorganics	Lithium	0.14	ppm .d.b	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Lithium	<0.1	ppm .d.b	NOSHAN
Grape	Grape pomace		Inorganics	Lithium	0.5	ppm .d.b	NOSHAN

Barley	Malted barley germs		Inorganics	Lithium	0.58	ppm .d.b	NOSHAN
Mushrooms	Mushrooms		Inorganics	Lithium	0.29	ppm .d.b	NOSHAN
Olive	Olive pomace		Inorganics	Lithium	0.9	ppm .d.b	NOSHAN
Onion	Onion hulls		Inorganics	Lithium	0.23	ppm .d.b	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Lithium	1.7	ppm .d.b	NOSHAN
Potato	Potato	Selected	Inorganics	Lithium	<0.1	ppm .d.b	NOSHAN
Potato	Potato skin		Inorganics	Lithium	0.3	ppm .d.b	NOSHAN
Rape	Rapeseed press cake		Inorganics	Lithium	<0.1	ppm .d.b	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Lithium	0.18	ppm .d.b	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Lithium	0.5	ppm .d.b	NOSHAN
Tomatoes	Tomato skin		Inorganics	Lithium	<0.1	ppm .d.b	NOSHAN
Apple	Apple	Whole	Inorganics	Lithium	<0.1	ppm .d.b	NOSHAN
Pears	Pear	Whole	Inorganics	Lithium	<0.1	ppm .d.b	NOSHAN
Yoghurt	Yoghurt		Inorganics	Lithium	<0.1	ppm .d.b	NOSHAN
Wheat	Wheat		Proximates	Llysine, digestible	2.5	g/kg as fed, pigs	Distillery feed by-products briefing
Wheat	Wheat feed		Proximates	Llysine, digestible	4.6	g/kg as fed, pigs	Distillery feed by-products briefing
Wheat	Wheat bran		Proximates	Llysine, digestible	4	g/kg as fed, pigs	Distillery feed by-products briefing

Wheat	Wheat grain	Dark	Proximates	Llysine, digestible	5.6	g/kg as fed, pigs	Distillery feed by-products briefing
Sugar beet	Sugar beet feed	Molassed	Proximates	Llysine, digestible	0.1	g/kg as fed, pigs	Distillery feed by-products briefing
Rape	Rapeseed meal		Proximates	Llysine, digestible	14	g/kg as fed, pigs	Distillery feed by-products briefing
Rice	Rice husk, dried	Powder	Inorganics	Loss on ignition	86.304	% mass fraction	Development of photoluminescent glass derived from rice husk
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Waste compounds	Lower Heating Value (LHV)	14.62	MJ/kg	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Waste compounds	Lower Heating Value (LHV)	14.08	MJ/kg	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rape	Rape straw	490 fully ripe rape straw samples collected in China	Waste compounds	Lower Heating Value (LHV)	14.32	MJ/kg	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Waste compounds	Lower Heating Value (LHV)	15.69	MJ/kg	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Grain, unspecified	Oil extracted from distillers dried grains with soluble		Vitamin fractions	Lutein	46.69	µg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Grape	Grape cane	Alphone Lavallee	Flavones	Luteolin	1.84	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Flavones	Luteolin	3.52	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Flavones	Luteolin	3.88	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Hafizali	Flavones	Luteolin	0.84	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Flavones	Luteolin	4.4	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Isabella	Flavones	Luteolin	3.08	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Italia	Flavones	Luteolin	7.2	µg/100g	Chemical composition of grape canes

Grape	Grape cane	Sultani Cekirdeksiz	Flavones	Luteolin	2.62	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Flavones	Luteolin	2.7	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Flavones	Luteolin	3.94	µg/100g	Chemical composition of grape canes
Apple	Apple pomace		Proximates	Lysine	1.78	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Lysine	4.74	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Lysine	7.74	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Lysine	7.16	mg/g dry matter	NOSHAN
Canola	Canola meal		Proximates	Lysine	19.6	mg/g dry matter	A comparative study on amino acid availability of moist heated canla meal for poultry vs. ruminants
Apple	Apple cake		Proximates	Lysine	1.07	mg/g dry matter	NOSHAN

Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Lysine	23.79	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Lysine	10.84	mg/g dry matter	NOSHAN
Cabbage	Cabbage		Proximates	Lysine	3.11	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Lysine	29.92	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Lysine	24.65	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Lysine	45.92	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Lysine	5.76	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Lysine	3.94	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Lysine	11.64	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Lysine	11.71	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Lysine	12.56	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Lysine	0	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Lysine	2.4	mg/g dry matter	NOSHAN

Onion	Onion	Slices, fresh	Proximates	Lysine	1.22	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Lysine	3.03	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Lysine	2.1	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Lysine	14.22	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Lysine	2.57	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Lysine	4.19	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Lysine	1.19	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Lysine	0.55	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Lysine	0.8	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Lysine	12.99	mg/g dry matter	NOSHAN
Canola	Canola meal	Average of analysed values	Proximates	Lysine	21.1	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities

Rape	Rapeseed hulls	Purified	Proximates	Lysine	10.1	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Fish, unspecified	Fish meal		Proximates	Lysine	51.3	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Lysine	27.6	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Lysine	17.1	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Lysine	14.1	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Lysine	14.4	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Cabbage	Cabbage meal		Proximates	Lysine	4.5	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Citrus, unspecified	Citrus meal, dried		Proximates	Lysine	2.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Lysine	1.77	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Lysine	2.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Lysine	1.4	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Lysine	19.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Lysine	15.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Lysine	12.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Lysine	23.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Lysine	18.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Lysine	25.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Lysine	12.7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Lysine	18.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Lysine	21.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Lysine	21.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Lysine	9.01	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Lysine	7.69	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Nuts, unspecified	Nut meal	Babacu	Proximates	Lysine	6.4	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Nuts, unspecified	Nut meal	Cashew	Proximates	Lysine	9.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cassava	Cassava meal		Proximates	Lysine	1	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Proximates	Lysine	6.6	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Corn	Corn gluten meal		Proximates	Lysine	10.5	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cotton	Cottonseed meal	solv	Proximates	Lysine	15	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Proximates	Lysine	25	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Animal by-products, unspecified	Meat and bone meal		Proximates	Lysine	18.9	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Rice	Rice bran	Defatted	Proximates	Lysine	6.8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Proximates	Lysine	26.5	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Barley	Malt sprout meal		Proximates	Lysine	9.7	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Wheat	Wheat bran		Proximates	Lysine	5.5	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Canola	Juncea canola meal		Proximates	Lysine	20.1	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Lysine	1.89	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Lysine	7.04	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Lysine	8.16	% of protein	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Lysine	2.05	% of protein	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Lysine	7.27	% of protein	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Lysine	6.29	% of protein	Chemical characterization of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Lysine	4.8	% of protein	Feedipedia
Wheat	Triticale grain		Proximates	Lysine	3.5	% of protein	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Lysine	3	% of protein	Feedipedia

Palm	Oil palm leaflets	Fresh	Proximates	Lysine	3.1	% of protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Lysine	4.3	% of protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Lysine	2.5	% of protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Lysine	3.1	% of protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Lysine	4.1	% of protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Lysine	3.6	% of protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Lysine	4.6	% of protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Lysine	3	% of protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Lysine	2.6	% of protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Lysine	2.6	% of protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Lysine	2.6	% of protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Lysine	4.5	% of protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Lysine	4.7	% of protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Lysine	4.4	% of protein	Feedipedia

Rice	Rice bran	Defatted, fibre <11%	Proximates	Lysine	4.4	% of protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Lysine	3.9	% of protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Lysine	4.6	% of protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Lysine	3.8	% of protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Lysine	2.9	% of protein	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Lysine	1	% of protein	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Lysine	1.1	% of protein	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Lysine	2.8	% of protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Lysine	2.2	% of protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Lysine	2.2	% of protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Lysine	2.2	% of protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Lysine	2.2	% of protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Lysine	2.2	% of protein	Feedipedia
Wheat	Wheat bran		Proximates	Lysine	4	% of protein	Feedipedia

Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Lysine	2.3	% of protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Lysine	2.3	% of protein	Feedipedia
Wheat	Wheat germs		Proximates	Lysine	5.4	% of protein	Feedipedia
Wheat	Wheat grain		Proximates	Lysine	2.9	% of protein	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Lysine	2.9	% of protein	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Lysine	4	% of protein	Feedipedia
Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Lysine	3.8	% of protein	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Lysine	3	% of protein	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Lysine	5.1	% of protein	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Lysine	4	% of protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Lysine	5	% of protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Lysine	2.6	% of protein	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Lysine	2.1	% of protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Lysine	3.1	% of protein	Feedipedia

Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Lysine	4	% of protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Lysine	4.2	% of protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Lysine	4.3	% of protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Lysine	4	% of protein	Feedipedia
Grape	Grape seeds		Proximates	Lysine	2.6	% of protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Lysine	4	% of protein	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Lysine	3.6	% of protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Lysine	4.1	% of protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Lysine	4	% of protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Lysine	4	% of protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Lysine	4.1	% of protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Lysine	2.7	% of protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Lysine	4.8	% of protein	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Lysine	4.4	% of protein	Feedipedia
Palm	Oil palm kernels		Proximates	Lysine	3.5	% of protein	Feedipedia

Palm	Palm kernel meal	Mechanical extraction	Proximates	Lysine	2.9	% of protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Lysine	3.2	% of protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Lysine	2.7	% of protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Lysine	4.5	% of protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Lysine	4.4	% of protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Lysine	4.6	% of protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Lysine	3.5	% of protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Lysine	3.5	% of protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Lysine	3.5	% of protein	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Lysine	4.6	% of protein	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Lysine	4.2	% of protein	Feedipedia

Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Lysine	3.7	% of protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Lysine	0.5	% of protein	Feedipedia
Pumpkin	Pumpkin seeds	Cucurbita sp.	Proximates	Lysine	5.1	% of protein	Feedipedia
Rape	Rapeseed hulls		Proximates	Lysine	7.1	% of protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Lysine	5.5	% of protein	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Lysine	5.6	% of protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Lysine	5.6	% of protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Lysine	6.3	% of protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Lysine	4.1	% of protein	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Lysine	2.9	% of protein	Feedipedia

Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Lysine	3.2	% of protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Lysine	2.5	% of protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Lysine	2.4	% of protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Lysine	3.5	% of protein	Feedipedia
Soy	Soybean hulls		Proximates	Lysine	6.3	% of protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Lysine	6.1	% of protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Lysine	6.3	% of protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Lysine	6.3	% of protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Lysine	6.2	% of protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Lysine	6.4	% of protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Lysine	6	% of protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Lysine	6.3	% of protein	Feedipedia
Sunflower	Sunflower screenings		Proximates	Lysine	5.1	% of protein	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Lysine	3.5	% of protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Lysine	3.5	% of protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Lysine	3.6	% of protein	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Lysine	3.3	% of protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Lysine	3.9	% of protein	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Lysine	7.2	% of protein	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Lysine	2.2	% of protein	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Proximates	Lysine	2.5	% of protein	Feedipedia

Apple	Apple pomace, dried	Dehydrated	Proximates	Lysine	4.9	% of protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Lysine	7.7	% of protein	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Lysine	1.1	% of protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Lysine	3.6	% of protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Lysine	1	% of protein	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Lysine	1.9	% of protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Lysine	3.4	% of protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Lysine	1.4	% of protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Lysine	2.7	% of protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Lysine	1.2	% of protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Lysine	4.8	% of protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Lysine	4.6	% of protein	Feedipedia

Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Lysine	2	% of protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Lysine	3.9	% of protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Lysine	1.4	% of protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Lysine	5.2	% of protein	Feedipedia
Potato	Potato peel	Fresh	Proximates	Lysine	3.3	% of protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Lysine	4.9	% of protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Lysine	6.2	% of protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Lysine	4.3	% of protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Lysine	7.5	% of protein	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Lysine	0.3	% of protein	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Lysine	5.8	% of protein	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Lysine	3.6	% of protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Lysine	4.8	% of protein	Feedipedia

Potato	Sweet potato leaf protein concentrate		Proximates	Lysine	6.2	% of protein	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Lysine	4	% of protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Lysine	3.6	% of protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Lysine	6.2	% of protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Lysine	0.1	% of protein	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Lysine	4.6	% of protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Lysine	3.8	% of protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Lysine	0.6	% of protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Lysine	0.2	% of protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Lysine	1	% of protein	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Lysine	0.9	% of protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Lysine	3.8	% of protein	Feedipedia

Animal by-products, unspecified	Blood meal		Proximates	Lysine	8.7	% of protein	Feedipedia
Animal by-products, unspecified	Blood meal	Chicken	Proximates	Lysine	8	% of protein	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Lysine	4.7	% of protein	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Lysine	13.5	% of protein	Feedipedia
Eggs	Eggshells		Proximates	Lysine	1.5	% of protein	Feedipedia
Poultry	Feather meal		Proximates	Lysine	2.1	% of protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Lysine	7.5	% of protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Lysine	7.5	% of protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Lysine	7	% of protein	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Lysine	7.7	% of protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Lysine	7.1	% of protein	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Lysine	4.8	% of protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Lysine	5.4	% of protein	Feedipedia

Poultry	Hatchery by product		Proximates	Lysine	4.2	% of protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Lysine	4.8	% of protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Lysine	3.9	% of protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Lysine	3.8	% of protein	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Lysine	6.6	% of protein	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Lysine	6.8	% of protein	Feedipedia
Animal by-products, unspecified	Liver meal	Poultry	Proximates	Lysine	6.9	% of protein	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Lysine	4.3	% of protein	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Lysine	2.9	% of protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Lysine	5	% of protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Lysine	5	% of protein	Feedipedia

Poultry	Offal meal	Poultry	Proximates	Lysine	4.4	% of protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Lysine	6.5	% of protein	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Lysine	2.4	% of protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Lysine	5.7	% of protein	Feedipedia
Shrimp	Shrimp waste	Ensiled, fresh	Proximates	Lysine	5.9	% of protein	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Lysine	7.4	% of protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Lysine	4.6	% of protein	Feedipedia
Snail	Snail meal	Without shells	Proximates	Lysine	11.3	% of protein	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Lysine	6.7	% of protein	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Lysine	7	% of protein	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Lysine	7.1	% of protein	Feedipedia
Whale	Whale meal		Proximates	Lysine	7.3	% of protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Lysine	7.6	% of protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Lysine	6.8	% of protein	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Lysine	6.3	% of protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Lysine	4.4	% of protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Lysine	4.4	% of protein	Feedipedia
Rye	Seed residue		Proximates	Lysine	4.01	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Lysine	6.48	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Lysine	4.09	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Lysine	4.97	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Lysine	6.77	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Sugar beet	Sugar beet pulp		Proximates	Lysine	7.52	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Lysine	2.9	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Lysine	3.76	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Distillery by-products, unspecified	Distillers solids		Proximates	Lysine	39	g/160g nitrogen	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Barley	Barley		Proximates	Lysine	37	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Soy	Soybean meal	Soyabean meal	Proximates	Lysine	54	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Lysine	43	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs

Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Lysine	65.3	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Lysine	52.5	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Lysine	4.65	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Lysine	4.66	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Lysine	4.5	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Hop	Hops		Proximates	Lysine	0.28	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Lysine	0.62	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Lysine	1.17	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Lysine	2.56	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Lysine	0.4	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Lysine	1.7	mg/g DM	NOSHAN

Barley	Malted barley germs		Proximates	Lysine	0.17	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Lysine	0.3	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Lysine	0.38	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Lysine	0.1	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Lysine	0	mg/g DM	NOSHAN
Apple	Apple pomace		Proximates	Lysine	1.78	% D AA	NOSHAN
Orange	Orange peel	Orange	Proximates	Lysine	1.24	% D AA	NOSHAN
Cheese	Whey	Milk	Proximates	Lysine	1.68	% D AA	NOSHAN
Hop	Hops		Proximates	Lysine	1.36	% D AA	NOSHAN
Apple	Apple cake		Proximates	Lysine	0	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Lysine	1.73	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Lysine	1.69	% D AA	NOSHAN
Cabbage	Cabbage		Proximates	Lysine	1.69	% D AA	NOSHAN
Cheese	Cheese	Hard	Proximates	Lysine	1.93	% D AA	NOSHAN
Cheese	Cheese	Soft	Proximates	Lysine	1.97	% D AA	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Lysine	3.19	% D AA	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Lysine	1.68	% D AA	NOSHAN
Grape	Grape pomace		Proximates	Lysine	2.01	% D AA	NOSHAN

Barley	Malted barley germs		Proximates	Lysine	2.58	% D AA	NOSHAN
Barley	Malted barley germs		Proximates	Lysine	1.8	% D AA	NOSHAN
Mushrooms	Mushrooms		Proximates	Lysine	4.26	% D AA	NOSHAN
Olive	Olive pomace		Proximates	Lysine	0	% D AA	NOSHAN
Onion	Onion hulls		Proximates	Lysine	1.01	% D AA	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Lysine	0	% D AA	NOSHAN
Potato	Potato skin		Proximates	Lysine	2.85	% D AA	NOSHAN
Rape	Rapeseed press cake		Proximates	Lysine	2.21	% D AA	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Lysine	4.48	% D AA	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Lysine	1.92	% D AA	NOSHAN
Tomatoes	Tomato skin		Proximates	Lysine	1.53	% D AA	NOSHAN
Apple	Apple	Whole	Proximates	Lysine	0	% D AA	NOSHAN
Pears	Pear	Whole	Proximates	Lysine	0	% D AA	NOSHAN
Yoghurt	Yoghurt		Proximates	Lysine	2.36	% D AA	NOSHAN

Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Lysine	8.9	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Lysine	2.69	g/100g crude protein	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Lysine	10.12	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Lysine	9.16	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Lysine	7.9	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Lysine	7.48	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Lysine	9.92	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Lysine	9.09	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Tilapia	Tilapia filleting residue		Proximates	Lysine	9.75	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Lysine	5.94	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Lysine	6.77	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Lysine	15.7	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Lysine	8.3	g/kg DM	Nutritive value of plantain and chicory for pigs

Milk	Milk	Holstein Friesian cows, Spain	Proximates	Lysine	252.59	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Lysine	342.86	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Lysine	3.4	g/16g N	Feedipedia
Barley	Barley		Proximates	Lysine availability	0.657	N/A	Wet barley distillers solids as a protein source for growing pigs
Soy	Soybean meal	Soyabean meal	Proximates	Lysine availability	0.711	N/A	Wet barley distillers solids as a protein source for growing pigs

Canola	Juncea canola meal		Proximates	Lysine, available	18.6	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Lysine, chemically available	8.3	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Inorganics	Magnesium	4	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Grape	Grape cane	Alphone Lavallee	Inorganics	Magnesium	3.74	mg/100g	Chemical composition of grape canes

Grape	Grape cane	Atasarisi	Inorganics	Magnesium	5.12	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Inorganics	Magnesium	3	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Hafizali	Inorganics	Magnesium	11.12	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Inorganics	Magnesium	6.57	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Isabella	Inorganics	Magnesium	3.18	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Italia	Inorganics	Magnesium	4.72	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Inorganics	Magnesium	1.94	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Inorganics	Magnesium	4.56	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Inorganics	Magnesium	2.58	mg/100g	Chemical composition of grape canes

Poultry	Hatchery waste		Inorganics	Magnesium	2740	mg/kg	Composition of Australian meat chicken hatchery waste
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Inorganics	Magnesium	0.57	mg/kg	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Inorganics	Magnesium	1100	mg/kg	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Magnesium	2257.1	mg/kg DM	ECN Phyllis 2

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Magnesium	5300	mg/kg DM	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Magnesium	2000	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Magnesium	2900	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Magnesium	11964	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Magnesium	11000	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Magnesium	10000	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Magnesium	10000	mg/kg DM	ECN Phyllis 2
Rice	Rice straw char	Char from pyrolysis at 490°C	Inorganics	Magnesium	4862	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Magnesium	571	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Magnesium	7110.5	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Magnesium	9189.7	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Magnesium	4900	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Magnesium	6000	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Magnesium	400	mg/kg DM	ECN Phyllis 2
Olive	Olive cake		Inorganics	Magnesium	5100	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Magnesium	379.5	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Magnesium	4995.5	mg/kg DM	ECN Phyllis 2

Olive	Olive residue	Sample lot size: 60kg. Country: Spain	Inorganics	Magnesium	2847.3	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Magnesium	2291	mg/kg DM	ECN Phyllis 2
Apple	Apple pomace, dried	Powder	Inorganics	Magnesium	0.02	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Magnesium	0.02	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Magnesium	0.01	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Magnesium	0.01	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Inorganics	Magnesium	0.23	%	Wet brewers' grains for beef cattle
Grape	Grape stalks		Inorganics	Magnesium	0.02	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces

Apple	Apple pomace	Malus domestica	Inorganics	Magnesium	0.09	% DM basis	Waste to worth: fruit wastes and by-products as animal feed
Apple	Apple pomace, dried	Powder	Inorganics	Magnesium	0.02	% DM basis	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Magnesium	0.021	% DM basis	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Magnesium	0.01	% DM basis	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Magnesium	0.01	% DM basis	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Magnesium	0.11	% DM basis	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lucopersicum	Inorganics	Magnesium	0.25-0.28	% DM basis	Vegetable waste as animal feed paper; Utilization of fruit and vegetable wastes, FAO

Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Magnesium	0.21	% DM basis	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Magnesium	0.82	% DM basis	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace/marc	Namily vitaceae	Inorganics	Magnesium	0.1	% DM basis	Utilization of fruit and vegetable wastes, FAO; Fruit waste as feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Inorganics	Magnesium	0.44	% DM basis	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Inorganics	Magnesium	0.68	% DM basis	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Magnesium	0.2	% DM basis	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Inorganics	Magnesium	0.12	% DM basis	Utilization of fruit and vegetable wastes, FAO

Lemon	Sweet lemon pulp	Citrus limetta, without skin	Inorganics	Magnesium	0.11	% DM basis	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Inorganics	Magnesium	0.09	% DM basis	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Inorganics	Magnesium	0.1	% DM basis	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Magnesium	0.28	% DM basis	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Inorganics	Magnesium	0.3	% DM basis	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Inorganics	Magnesium	0.43	% DM basis	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Inorganics	Magnesium	0.36	% DM basis	Utilization of fruit and vegetable wastes, FAO

Carrot	Carrot pulp	Daucus carota	Inorganics	Magnesium	0.17	% DM basis	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Magnesium	0.2	% DM basis	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Inorganics	Magnesium	0.17	% DM basis	Vegetable waste as animal feed paper
Potato	Potato	Solanum tuberosum	Inorganics	Magnesium	0.22	% DM basis	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Inorganics	Magnesium	0.16	% DM basis	Vegetable waste as animal feed paper
Pumpkin	Pumpkin oil meal	Cucurbita pepo	Inorganics	Magnesium	0.57	% DM basis	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Magnesium	0.25-0.28	% DM basis	Vegetable waste as animal feed paper

Cabbage	Cabbage leaves	Brassica oleracea	Inorganics	Magnesium	0.68	% DM basis	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Inorganics	Magnesium	0.44	% DM basis	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Magnesium	0.03	% DM basis	Vegetable waste as animal feed paper
Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Magnesium	0.7	% DM basis	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Magnesium	0.36	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Magnesium	0.37	% DM basis	Composted slaughterhouse waste as organic fertilizer

Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Magnesium	0.54	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Inorganics	Magnesium	0.18	% DM	Composted slaughterhouse waste as organic fertilizer
Grape	Grape seeds	White, Italian	Inorganics	Magnesium	1.3	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Red, Italian	Inorganics	Magnesium	1.2	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Californian	Inorganics	Magnesium	1.2	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Not ensiled	Inorganics	Magnesium	1.3	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Ensiled for 45 days	Inorganics	Magnesium	1.2	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	White, Italian	Inorganics	Magnesium	1.1	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Red, Italian	Inorganics	Magnesium	0.9	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Californian	Inorganics	Magnesium	1	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Not ensiled	Inorganics	Magnesium	0.9	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Ensiled for 45 days	Inorganics	Magnesium	1	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Citrus, unspecified	Citrus pulp silage		Inorganics	Magnesium	1.6	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus meal, dried		Inorganics	Magnesium	1.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Magnesium	1.2	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Inorganics	Magnesium	1.7	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Magnesium	2.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Magnesium	1.6	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Magnesium	1.5	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Inorganics	Magnesium	0.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Magnesium	1.6	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried	Ammoniated	Inorganics	Magnesium	0.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Inorganics	Magnesium	4.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus seed meal	Mechanical extract	Inorganics	Magnesium	6.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses	Ammoniated	Inorganics	Magnesium	1.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Magnesium	2.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillery by-products, unspecified	Distillers solids		Inorganics	Magnesium	2.7	g/kg DM	Wet barley distillers solids as a protein source for growing pigs

Rice	Rice, aerial part	Fresh	Inorganics	Magnesium	1.5	g/kg DM	Feedipedia
Rice	Rice straw		Inorganics	Magnesium	1.9	g/kg DM	Feedipedia
Rice	Rice straw	Urea-treated	Inorganics	Magnesium	1.7	g/kg DM	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Inorganics	Magnesium	1.4	g/kg DM	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Inorganics	Magnesium	1.5	g/kg DM	Feedipedia
Wheat	Triticale grain		Inorganics	Magnesium	1.2	g/kg DM	Feedipedia
Wheat	Triticale straw		Inorganics	Magnesium	0.7	g/kg DM	Feedipedia
Wheat	Wheat straw		Inorganics	Magnesium	1.2	g/kg DM	Feedipedia
Palm	Oil palm fronds	Fresh	Inorganics	Magnesium	1.8	g/kg DM	Feedipedia
Palm	Oil palm leaflets	Fresh	Inorganics	Magnesium	1.7	g/kg DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Inorganics	Magnesium	1.2	g/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Inorganics	Magnesium	3.3	g/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Inorganics	Magnesium	1.6	g/kg DM	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Inorganics	Magnesium	6.4	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Inorganics	Magnesium	2.6	g/kg DM	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Inorganics	Magnesium	2.3	g/kg DM	Feedipedia
Rice	Rice grain	Brown	Inorganics	Magnesium	1.2	g/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Inorganics	Magnesium	2	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Inorganics	Magnesium	3.3	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Inorganics	Magnesium	1.1	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Inorganics	Magnesium	4	g/kg DM	Feedipedia
Rice	Rice bran	Fibre <4%	Inorganics	Magnesium	6.1	g/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Inorganics	Magnesium	7.8	g/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Inorganics	Magnesium	6.5	g/kg DM	Feedipedia
Rice	Rice bran	Fibre >20%	Inorganics	Magnesium	2.1	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Inorganics	Magnesium	4.6	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Inorganics	Magnesium	4.4	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Inorganics	Magnesium	2.4	g/kg DM	Feedipedia
Rice	Rice hull		Inorganics	Magnesium	1	g/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Inorganics	Magnesium	1	g/kg DM	Feedipedia

Sorghum	Sorghum bran and milling offal		Inorganics	Magnesium	2.4	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Inorganics	Magnesium	2.3	g/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Inorganics	Magnesium	1.8	g/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Inorganics	Magnesium	2.4	g/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Inorganics	Magnesium	1.1	g/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Inorganics	Magnesium	1.7	g/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Inorganics	Magnesium	1.9	g/kg DM	Feedipedia
Wheat	Wheat bran		Inorganics	Magnesium	4.5	g/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Inorganics	Magnesium	3.7	g/kg DM	Feedipedia
Wheat	Wheat germs		Inorganics	Magnesium	2.7	g/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Inorganics	Magnesium	1.2	g/kg DM	Feedipedia
Wheat	Wheat grain		Inorganics	Magnesium	1.2	g/kg DM	Feedipedia
Wheat	Wheat screenings		Inorganics	Magnesium	1.8	g/kg DM	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Inorganics	Magnesium	2.9	g/kg DM	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Inorganics	Magnesium	0.8	g/kg DM	Feedipedia

Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Inorganics	Magnesium	3.3	g/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Inorganics	Magnesium	1.8	g/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Inorganics	Magnesium	3.2	g/kg DM	Feedipedia
Castor	Castor oil meal	Ricinus communis	Inorganics	Magnesium	4.3	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Inorganics	Magnesium	4.3	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Inorganics	Magnesium	4.5	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Inorganics	Magnesium	5.4	g/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Inorganics	Magnesium	3	g/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Inorganics	Magnesium	3.3	g/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Inorganics	Magnesium	6	g/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Inorganics	Magnesium	6.3	g/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Inorganics	Magnesium	6.7	g/kg DM	Feedipedia

Cotton	Cottonseed meal	High fibre, low oil	Inorganics	Magnesium	6.3	g/kg DM	Feedipedia
Grape	Grape seeds		Inorganics	Magnesium	1.2	g/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Inorganics	Magnesium	0.7	g/kg DM	Feedipedia
Flax/linseed	Linseed meal		Inorganics	Magnesium	5.5	g/kg DM	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Inorganics	Magnesium	4.8	g/kg DM	Feedipedia
Flax/linseed	Linseeds		Inorganics	Magnesium	4	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Inorganics	Magnesium	2	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Inorganics	Magnesium	1.9	g/kg DM	Feedipedia
Corn	Maize germ	Oil <30%	Inorganics	Magnesium	5	g/kg DM	Feedipedia
Corn	Maize germ	Oil >30%	Inorganics	Magnesium	0.3	g/kg DM	Feedipedia
Olive	Olive oil cake	Crude, without stones	Inorganics	Magnesium	0.7	g/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Inorganics	Magnesium	1.4	g/kg DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Inorganics	Magnesium	0.8	g/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Inorganics	Magnesium	3.1	g/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Inorganics	Magnesium	3.4	g/kg DM	Feedipedia
Palm	Palm oil mill effluent	Decanted	Inorganics	Magnesium	1.5	g/kg DM	Feedipedia

Palm	Oil palm mill effluent, dried	Dried	Inorganics	Magnesium	0.9	g/kg DM	Feedipedia
Palm	Palm press fibre	High oil	Inorganics	Magnesium	0.7	g/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Inorganics	Magnesium	6	g/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Inorganics	Magnesium	6.1	g/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Inorganics	Magnesium	1.2	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Inorganics	Magnesium	3.9	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Inorganics	Magnesium	3.4	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Inorganics	Magnesium	3.4	g/kg DM	Feedipedia
Peanuts	Peanuts	Without shells	Inorganics	Magnesium	2.2	g/kg DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Inorganics	Magnesium	1.5	g/kg DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Inorganics	Magnesium	1.7	g/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Inorganics	Magnesium	5.7	g/kg DM	Feedipedia
Rape	Rape straw		Inorganics	Magnesium	2.6	g/kg DM	Feedipedia
Rape	Rapeseed hulls		Inorganics	Magnesium	1.4	g/kg DM	Feedipedia

Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Inorganics	Magnesium	5.7	g/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Inorganics	Magnesium	5.7	g/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Inorganics	Magnesium	2.6	g/kg DM	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Inorganics	Magnesium	2.8	g/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Inorganics	Magnesium	5.9	g/kg DM	Feedipedia
Sesame	Sesame meal	Solvent extraction	Inorganics	Magnesium	2.3	g/kg DM	Feedipedia
Sesame	Sesame seeds	Whole	Inorganics	Magnesium	3.3	g/kg DM	Feedipedia
Soy	Soybean, aerial part	Fresh	Inorganics	Magnesium	6.3	g/kg DM	Feedipedia
Soy	Soybean hulls		Inorganics	Magnesium	2.6	g/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Inorganics	Magnesium	3.1	g/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Inorganics	Magnesium	3.4	g/kg DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Inorganics	Magnesium	3.2	g/kg DM	Feedipedia

Soy	Soybeans	All. Includes raw and processed whole soybeans	Inorganics	Magnesium	2.4	g/kg DM	Feedipedia
Soy	Soybeans	Toasted	Inorganics	Magnesium	2.4	g/kg DM	Feedipedia
Soy	Soybeans	Extruded	Inorganics	Magnesium	2.3	g/kg DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Inorganics	Magnesium	4.2	g/kg DM	Feedipedia
Sunflower	Sunflower forage	Silage	Inorganics	Magnesium	8.6	g/kg DM	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Inorganics	Magnesium	5.4	g/kg DM	Feedipedia
Sunflower	Sunflower heads	Without seeds	Inorganics	Magnesium	2.2	g/kg DM	Feedipedia
Sunflower	Sunflower stalks		Inorganics	Magnesium	9.2	g/kg DM	Feedipedia
Sunflower	Sunflower hulls		Inorganics	Magnesium	2.6	g/kg DM	Feedipedia
Sunflower	Sunflower screenings		Inorganics	Magnesium	2.6	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Inorganics	Magnesium	5.6	g/kg DM	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Inorganics	Magnesium	5.9	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Inorganics	Magnesium	5.3	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Inorganics	Magnesium	3.6	g/kg DM	Feedipedia
Sunflower	Sunflower seeds		Inorganics	Magnesium	3	g/kg DM	Feedipedia
Apple	Apple pomace	Fresh	Inorganics	Magnesium	0.7	g/kg DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Inorganics	Magnesium	0.9	g/kg DM	Feedipedia
Plantain	Plantain banana fruits, dried	Dehydrated	Inorganics	Magnesium	1.1	g/kg DM	Feedipedia
Plantain	Plantain banana trunk	Fresh	Inorganics	Magnesium	3.7	g/kg DM	Feedipedia
Banana	Banana stalks	Fresh	Inorganics	Magnesium	9.2	g/kg DM	Feedipedia
Plantain	Plantain banana leaves	Fresh	Inorganics	Magnesium	3.6	g/kg DM	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Inorganics	Magnesium	2.9	g/kg DM	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Inorganics	Magnesium	2.9	g/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Inorganics	Magnesium	1.3	g/kg DM	Feedipedia

Coffee	Coffee hulls		Inorganics	Magnesium	0.9	g/kg DM	Feedipedia
Coffee	Instant coffee by product		Inorganics	Magnesium	0.3	g/kg DM	Feedipedia
Coffee	Coffee oil meal	By product of essential oil extraction	Inorganics	Magnesium	1.2	g/kg DM	Feedipedia
Coffee	Coffee leaves		Inorganics	Magnesium	2.4	g/kg DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Inorganics	Magnesium	14.7	g/kg DM	Feedipedia
Grape	Grape pomace	Dehydrated	Inorganics	Magnesium	0.8	g/kg DM	Feedipedia
Grape	Grape pomace	Silage	Inorganics	Magnesium	1.2	g/kg DM	Feedipedia
Melon	Melon	Aerial part, fresh. Cucumis melo	Inorganics	Magnesium	14.1	g/kg DM	Feedipedia
Melon	Melon	Fruit, fresh. Cucumis melo	Inorganics	Magnesium	3.8	g/kg DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Inorganics	Magnesium	0.4	g/kg DM	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Inorganics	Magnesium	1.2	g/kg DM	Feedipedia
Melon	Watermelon	Aerial part, fresh. Citrullus lanatus	Inorganics	Magnesium	6.9	g/kg DM	Feedipedia

Melon	Watermelon	Fruit, fresh. Citrullus lanatus	Inorganics	Magnesium	3.1	g/kg DM	Feedipedia
Sugar beet	Sugar beet molasses		Inorganics	Magnesium	0.6	g/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Inorganics	Magnesium	1.2	g/kg DM	Feedipedia
Carrot	Carrot tops	Fresh	Inorganics	Magnesium	2.3	g/kg DM	Feedipedia
Potato	Potato peel	Fresh	Inorganics	Magnesium	1.3	g/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Inorganics	Magnesium	1	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Inorganics	Magnesium	1.9	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Inorganics	Magnesium	1.4	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Inorganics	Magnesium	1.5	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Inorganics	Magnesium	1.5	g/kg DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Inorganics	Magnesium	4	g/kg DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Inorganics	Magnesium	7	g/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Inorganics	Magnesium	0.9	g/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Inorganics	Magnesium	0.9	g/kg DM	Feedipedia

Sugar by-products, unspecified	Bagasse	Fresh	Inorganics	Magnesium	0.8	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Inorganics	Magnesium	0.5	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Urea-treated, dehydrated	Inorganics	Magnesium	0.8	g/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Inorganics	Magnesium	4	g/kg DM	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Inorganics	Magnesium	1.6	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Inorganics	Magnesium	1	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Inorganics	Magnesium	0.9	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Inorganics	Magnesium	1.4	g/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal		Inorganics	Magnesium	0.2	g/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Calcinated	Inorganics	Magnesium	4.2	g/kg DM	Feedipedia

Crab	Crab meal, dried	Dehydrated	Inorganics	Magnesium	7.8	g/kg DM	Feedipedia
Crab	Crab shells	Ground	Inorganics	Magnesium	18.3	g/kg DM	Feedipedia
Poultry	Feather meal		Inorganics	Magnesium	0.9	g/kg DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Inorganics	Magnesium	3.1	g/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Inorganics	Magnesium	2.3	g/kg DM	Feedipedia
Fish, unspecified	Fish protein concentrate		Inorganics	Magnesium	1.5	g/kg DM	Feedipedia
Frog	Frog meal	Whole frog	Inorganics	Magnesium	0.1	g/kg DM	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Inorganics	Magnesium	8.7	g/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Inorganics	Magnesium	0.5	g/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	Cattle	Inorganics	Magnesium	0.5	g/kg DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Inorganics	Magnesium	6.3	g/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Inorganics	Magnesium	2.2	g/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Inorganics	Magnesium	1.5	g/kg DM	Feedipedia

Poultry	Offal meal	Poultry	Inorganics	Magnesium	0.7	g/kg DM	Feedipedia
Shrimp	Shrimp heads	Fresh	Inorganics	Magnesium	12.8	g/kg DM	Feedipedia
Shrimp	Shrimp heads, dried	Dehydrated	Inorganics	Magnesium	8.1	g/kg DM	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Inorganics	Magnesium	0.2	g/kg DM	Feedipedia
Snail	Snail meal	With shells	Inorganics	Magnesium	77.4	g/kg DM	Feedipedia
Snail	Snail meal	Without shells	Inorganics	Magnesium	2.8	g/kg DM	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Inorganics	Magnesium	6.1	g/kg DM	Feedipedia
Toad	Toad meal		Inorganics	Magnesium	0.2	g/kg DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Inorganics	Magnesium	1	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Inorganics	Magnesium	2.4	g/kg DM	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Inorganics	Magnesium	0.1	g/kg DM	Feedipedia

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Magnesium	0.12	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Magnesium	0.18	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Magnesium	0.28	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Magnesium	0.09	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Bolti	Bolti fish	Whole	Inorganics	Magnesium	396.8	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Bolti	Bolti fish	Flesh only	Inorganics	Magnesium	362.11	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate

Fish, unspecified	Fish protein isolate		Inorganics	Magnesium	244.91	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Apple	Apple pomace		Inorganics	Magnesium	580.1	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Magnesium	1420	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Magnesium	1635	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Magnesium	4355	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Magnesium	707.1	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Magnesium	1867.31	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Magnesium	2963.1	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Magnesium	963.11	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Magnesium	481.2	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Magnesium	541.5	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Magnesium	227	ppm d.b.	NOSHAN

Grape	Grape pomace		Inorganics	Magnesium	1782	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Magnesium	2779.44	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Magnesium	1136	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Magnesium	1162	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Magnesium	1449.13	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Magnesium	1950	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Magnesium	1285	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Magnesium	1361	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Magnesium	7099	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Magnesium	835.5	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Magnesium	2875	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Magnesium	2018	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Magnesium	404	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Magnesium	640	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Magnesium	1102	ppm d.b.	NOSHAN

Milk	Milk	Holstein Friesian cows, Spain	Inorganics	Magnesium	9.40	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Inorganics	Magnesium	12.92	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Inorganics	Magnesium	956.56	g/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK

Rice	Rice husk	Before soaking pre-treatment	Inorganics	Magnesium oxide (MgO)	2.13	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk, dried	Soaked rice husks, dried	Inorganics	Magnesium oxide (MgO)	0.41	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk		Inorganics	Magnesium oxide (MgO)	0.8	% ash	Combustion behaviour of rice husk in a bubbling fluidised bed
Sugar cane	Sugar cane trash	Tops and leaves	Inorganics	Magnesium oxide (MgO)	4.3	% ash	ECN Phyllis 2
Sugar beet	Sugar beet		Inorganics	Magnesium oxide (MgO)	13	% ash	ECN Phyllis 2

Aubergine	Aubergine plant		Inorganics	Magnesium oxide (MgO)	4.16	% ash	ECN Phyllis 2
Bean	Bean plant		Inorganics	Magnesium oxide (MgO)	6.39	% ash	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Magnesium oxide (MgO)	2.2	% ash	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Magnesium oxide (MgO)	6.63	% ash	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Magnesium oxide (MgO)	14.48	% ash	ECN Phyllis 2
Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Magnesium oxide (MgO)	7.82	% ash	ECN Phyllis 2

Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Magnesium oxide (MgO)	8.06	% ash	ECN Phyllis 2
Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Magnesium oxide (MgO)	7.91	% ash	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Magnesium oxide (MgO)	8.85	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Magnesium oxide (MgO)	3.22	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Magnesium oxide (MgO)	6.51	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Magnesium oxide (MgO)	5.2	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Magnesium oxide (MgO)	2.6	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Magnesium oxide (MgO)	2.6	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Magnesium oxide (MgO)	3.31	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Magnesium oxide (MgO)	4.93	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash fusion temperatures according to ASTM D-1857	Inorganics	Magnesium oxide (MgO)	1.99	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Magnesium oxide (MgO)	2.9	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Magnesium oxide (MgO)	3.19	% ash	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Magnesium oxide (MgO)	2.49	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Magnesium oxide (MgO)	6.58	% ash	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Magnesium oxide (MgO)	10	% ash	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Magnesium oxide (MgO)	1.6	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Magnesium oxide (MgO)	7.9	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Magnesium oxide (MgO)	6.22	% ash	ECN Phyllis 2
Olive	Olive		Inorganics	Magnesium oxide (MgO)	3	% ash	ECN Phyllis 2

Olive	Olive		Inorganics	Magnesium oxide (MgO)	5.67	% ash	ECN Phyllis 2
Olive	Olive	Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Magnesium oxide (MgO)	3.48	% ash	ECN Phyllis 2
Olive	Olive cake		Inorganics	Magnesium oxide (MgO)	7.8	% ash	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Magnesium oxide (MgO)	4.2	% ash	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Magnesium oxide (MgO)	4.24	% ash	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Magnesium oxide (MgO)	6.21	% ash	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Magnesium oxide (MgO)	12.86	% ash	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Magnesium oxide (MgO)	12.4	% ash	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Magnesium oxide (MgO)	3.32	% ash	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Magnesium oxide (MgO)	2.54	% ash	ECN Phyllis 2
Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Magnesium oxide (MgO)	7.9	% ash	ECN Phyllis 2

Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Magnesium oxide (MgO)	1.12	% ash	ECN Phyllis 2
Olive	Orujillo	Wood matter from pressed oil stone	Inorganics	Magnesium oxide (MgO)	7.3	% ash	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Magnesium oxide (MgO)	4	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Magnesium oxide (MgO)	3.83	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Magnesium oxide (MgO)	3.26	% ash	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Magnesium oxide (MgO)	9.72	% ash	ECN Phyllis 2
Coffee	Coffee husk	Parchment	Inorganics	Magnesium oxide (MgO)	3.7	% ash	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Inorganics	Magnesium oxide (MgO)	12.1	% ash	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Magnesium oxide (MgO)	9.2	% ash	ECN Phyllis 2

Rice	Rice husk	Ash	Inorganics	Magnesium oxide (MgO)	0.221	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Silica powder	Inorganics	Magnesium oxide (MgO)	0.0012	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Magnesium oxide (MgO)	0.13	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Magnesium oxide (MgO)	0.77	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Magnesium oxide (MgO)	0.21	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Magnesium oxide (MgO)	0.7	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Magnesium oxide (MgO)	0.6	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Magnesium oxide (MgO)	0.11	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Magnesium oxide (MgO)	0.59	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Magnesium oxide (MgO)	0.18	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Magnesium oxide (MgO)	0.62	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Magnesium oxide (MgO)	0.62	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Magnesium oxide (MgO)	0.27	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Magnesium oxide (MgO)	0.67	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Magnesium oxide (MgO)	0.57	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Magnesium oxide (MgO)	0.33	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Magnesium oxide (MgO)	0.55	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk, dried	Powder	Inorganics	Magnesium oxide (MgO)	0.084	% mass fraction	Development of photoluminescent glass derived from rice husk
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Maltose	0.0	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Hop	Hops		Proximates	Maltose	<1	g/kg	NOSHAN
Barley	Malted barley germs		Proximates	Maltose	1	g/kg	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Maltose	1.1	g/kg	NOSHAN
Grape	Grape pomace, dried	Air dried	Anthocyanins	Malvidin-3-acetyl glucoside	1183	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Anthocyanins	Malvidin-3-acetyl glucoside	937	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Anthocyanins	Malvidin-3-acetyl glucoside	1095	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Air dried	Anthocyanins	Malvidin-3-caffeoyl glucoside	1450	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Anthocyanins	Malvidin-3-caffeoyl glucoside	1079	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Anthocyanins	Malvidin-3-caffeoyl glucoside	1165	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Air dried	Anthocyanins	Malvidin-3-coumaroyl glucoside	7232	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Anthocyanins	Malvidin-3-coumaroyl glucoside	4700	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Anthocyanins	Malvidin-3-coumaroyl glucoside	6223	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Air dried	Anthocyanins	Malvidin-3-glucoside	17687	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Anthocyanins	Malvidin-3-glucoside	12182	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Anthocyanins	Malvidin-3-glucoside	17052	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Inorganics	Manganese	0.03	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Apple	Apple pomace, dried	Powder	Inorganics	Manganese	9	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Manganese	26.33	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Manganese	43.17	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Manganese	29.5	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder	Inorganics	Manganese	9.32	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Manganese	27.57	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Manganese	45.15	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Manganese	30.62	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Tomatoes	Tomato pomace	Solanum lucopersicum	Inorganics	Manganese	11	mg/1000g	Vegetable waste as animal feed paper; Utilization of fruit and vegetable wastes, FAO
Nuts, unspecified	Nut meal	Babacu	Inorganics	Manganese	196	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Nuts, unspecified	Nut meal	Cashew	Inorganics	Manganese	21.2	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cassava	Cassava meal		Inorganics	Manganese	45.3	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Inorganics	Manganese	106	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Corn	Corn gluten meal		Inorganics	Manganese	1.3	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cotton	Cottonseed meal	solv	Inorganics	Manganese	20.5	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Inorganics	Manganese	6.5	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Animal by-products, unspecified	Meat and bone meal		Inorganics	Manganese	6.2	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Rice	Rice bran	Defatted	Inorganics	Manganese	262	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Inorganics	Manganese	60.4	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Sugar cane	Sugar cane juice		Inorganics	Manganese	7.3	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Inorganics	Manganese	55.2	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Wheat	Wheat bran		Inorganics	Manganese	165	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Carrot	Carrot	Daucus carota	Inorganics	Manganese	31	mg/1000g	Vegetable waste as animal feed paper

Carrot	Carrot pulp	Daucus carota	Inorganics	Manganese	292.8	mg/1000g	Vegetable waste as animal feed paper
Potato	Potato	Solanum tuberosum	Inorganics	Manganese	7.5	mg/1000g	Vegetable waste as animal feed paper
Pumpkin	Pumpkin oil meal	Cucurbita pepo	Inorganics	Manganese	190	mg/1000g	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Manganese	11	mg/1000g	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Inorganics	Manganese	54.6	mg/1000g	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Inorganics	Manganese	40.8	mg/1000g	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Manganese	67.8	mg/1000g	Vegetable waste as animal feed paper

Poultry	Hatchery waste		Inorganics	Manganese	0.52	mg/1000g	Composition of Australian meat chicken hatchery waste
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Inorganics	Manganese	0.78	mg/1000g	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Inorganics	Manganese	6	mg/1000g	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Manganese	0.02	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Manganese	62	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Manganese	67.8	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Inorganics	Manganese	40.8	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO

Cabbage	Cabbage leaves	Brassica oleracea C.	Inorganics	Manganese	54.6	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Manganese	31	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Inorganics	Manganese	7.5	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Inorganics	Manganese	0.02	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Inorganics	Manganese	17	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Manganese	11	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Inorganics	Manganese	522	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO

Melon	Muskmelon, peels	Cucumis melo	Inorganics	Manganese	20.4	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Inorganics	Manganese	14.36	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Inorganics	Manganese	292.8	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Inorganics	Manganese	17	mg/kg DM	Waste to worth: fruit wastes and by-products as animal feed
Grape	Grape marc		Inorganics	Manganese	20.89	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape stalks		Inorganics	Manganese	23.22	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Inorganics	Manganese	18.03	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape seeds		Inorganics	Manganese	22.69	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape oil cake		Inorganics	Manganese	25.16	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Inorganics	Manganese	10.49	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato peel		Inorganics	Manganese	15.5	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato seed		Inorganics	Manganese	50.7	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Inorganics	Manganese	56.1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato meal		Inorganics	Manganese	65.8	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato residues, dried	Dry	Inorganics	Manganese	28.1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Inorganics	Manganese	24.2	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Citrus, unspecified	Citrus pulp silage		Inorganics	Manganese	7	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus meal, dried		Inorganics	Manganese	8	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Manganese	9	mg/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Inorganics	Manganese	7	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Manganese	38	mg/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Manganese	7	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Manganese	9.5	mg/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Manganese	10.2	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Manganese	7.2	mg/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus molasses		Inorganics	Manganese	38.5	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus seed meal	Mechanical extract	Inorganics	Manganese	8.5	mg/kg DM	Citrus by-products as ruminant feeds: A review
Rice	Rice, aerial part	Fresh	Inorganics	Manganese	50	mg/kg DM	Feedipedia
Rice	Rice straw		Inorganics	Manganese	454	mg/kg DM	Feedipedia
Rice	Rice straw	Urea-treated	Inorganics	Manganese	387	mg/kg DM	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Inorganics	Manganese	37	mg/kg DM	Feedipedia
Wheat	Triticale grain		Inorganics	Manganese	24	mg/kg DM	Feedipedia
Wheat	Wheat straw		Inorganics	Manganese	32	mg/kg DM	Feedipedia
Palm	Oil palm fronds	Fresh	Inorganics	Manganese	45	mg/kg DM	Feedipedia
Palm	Oil palm leaflets	Fresh	Inorganics	Manganese	45	mg/kg DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Inorganics	Manganese	41	mg/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Inorganics	Manganese	33	mg/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Inorganics	Manganese	38	mg/kg DM	Feedipedia

Distillery by-products, unspecified	Pot ale syrup		Inorganics	Manganese	35	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Inorganics	Manganese	47	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Inorganics	Manganese	43	mg/kg DM	Feedipedia
Rice	Rice grain	Polished	Inorganics	Manganese	8	mg/kg DM	Feedipedia
Rice	Rice grain	Brown	Inorganics	Manganese	60	mg/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Inorganics	Manganese	80	mg/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Inorganics	Manganese	21	mg/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Inorganics	Manganese	6	mg/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Inorganics	Manganese	26	mg/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Inorganics	Manganese	211	mg/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Inorganics	Manganese	138	mg/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Inorganics	Manganese	221	mg/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Inorganics	Manganese	164	mg/kg DM	Feedipedia

Rice	Rice bran	Defatted, fibre >20%	Inorganics	Manganese	157	mg/kg DM	Feedipedia
Rice	Rice hull		Inorganics	Manganese	442	mg/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Inorganics	Manganese	82	mg/kg DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Inorganics	Manganese	35	mg/kg DM	Feedipedia
Sorghum	Sorghum gluten feed		Inorganics	Manganese	254	mg/kg DM	Feedipedia
Sorghum	Sorghum gluten meal		Inorganics	Manganese	255	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Inorganics	Manganese	12	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Inorganics	Manganese	7	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Inorganics	Manganese	15	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Inorganics	Manganese	9	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Inorganics	Manganese	11	mg/kg DM	Feedipedia
Wheat	Wheat bran		Inorganics	Manganese	114	mg/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Inorganics	Manganese	87	mg/kg DM	Feedipedia
Wheat	Wheat germs		Inorganics	Manganese	175	mg/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Inorganics	Manganese	18	mg/kg DM	Feedipedia
Wheat	Wheat grain		Inorganics	Manganese	40	mg/kg DM	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Inorganics	Manganese	19	mg/kg DM	Feedipedia

Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Inorganics	Manganese	8	mg/kg DM	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Inorganics	Manganese	60	mg/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Inorganics	Manganese	14	mg/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Inorganics	Manganese	11	mg/kg DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Inorganics	Manganese	95	mg/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Inorganics	Manganese	84	mg/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Inorganics	Manganese	62	mg/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Inorganics	Manganese	23	mg/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Inorganics	Manganese	14	mg/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Inorganics	Manganese	18	mg/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Inorganics	Manganese	24	mg/kg DM	Feedipedia
Flax/linseed	Linseed meal		Inorganics	Manganese	40	mg/kg DM	Feedipedia

Corn	Maize germ meal	Protein 20-30%, oil <5%	Inorganics	Manganese	11	mg/kg DM	Feedipedia
Corn	Maize germ	Oil <30%	Inorganics	Manganese	21	mg/kg DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Inorganics	Manganese	18	mg/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Inorganics	Manganese	10	mg/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Inorganics	Manganese	33	mg/kg DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Inorganics	Manganese	33	mg/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Inorganics	Manganese	181	mg/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Inorganics	Manganese	249	mg/kg DM	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Inorganics	Manganese	39	mg/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Inorganics	Manganese	124	mg/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Inorganics	Manganese	38	mg/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Inorganics	Manganese	48	mg/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Inorganics	Manganese	41	mg/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Inorganics	Manganese	47	mg/kg DM	Feedipedia

Peanuts	Peanuts, with shells	With shells	Inorganics	Manganese	45	mg/kg DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Inorganics	Manganese	45	mg/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Inorganics	Manganese	80	mg/kg DM	Feedipedia
Rape	Rape forage	Fresh	Inorganics	Manganese	35	mg/kg DM	Feedipedia
Rape	Rape straw		Inorganics	Manganese	30	mg/kg DM	Feedipedia
Rape	Rapeseed hulls		Inorganics	Manganese	40	mg/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Inorganics	Manganese	57	mg/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Inorganics	Manganese	57	mg/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Inorganics	Manganese	42	mg/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Inorganics	Manganese	80	mg/kg DM	Feedipedia
Sesame	Sesame meal	Solvent extraction	Inorganics	Manganese	30	mg/kg DM	Feedipedia
Soy	Soybean hulls		Inorganics	Manganese	24	mg/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Inorganics	Manganese	45	mg/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Inorganics	Manganese	40	mg/kg DM	Feedipedia

Soy	Soybeans	All. Includes raw and processed whole soybeans	Inorganics	Manganese	29	mg/kg DM	Feedipedia
Soy	Soybeans	Toasted	Inorganics	Manganese	32	mg/kg DM	Feedipedia
Soy	Soybeans	Extruded	Inorganics	Manganese	30	mg/kg DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Inorganics	Manganese	34	mg/kg DM	Feedipedia
Sunflower	Sunflower hulls		Inorganics	Manganese	16	mg/kg DM	Feedipedia
Sunflower	Sunflower screenings		Inorganics	Manganese	16	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Inorganics	Manganese	38	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Inorganics	Manganese	42	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Inorganics	Manganese	43	mg/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Inorganics	Manganese	7	mg/kg DM	Feedipedia
Apple	Apple pomace	Fresh	Inorganics	Manganese	2	mg/kg DM	Feedipedia

Citrus, unspecified	Citrus pulp, dried		Inorganics	Manganese	8	mg/kg DM	Feedipedia
Coffee	Coffee hulls		Inorganics	Manganese	31	mg/kg DM	Feedipedia
Coffee	Instant coffee by product		Inorganics	Manganese	52	mg/kg DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Inorganics	Manganese	5	mg/kg DM	Feedipedia
Grape	Grape pomace	Dehydrated	Inorganics	Manganese	13	mg/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Inorganics	Manganese	19	mg/kg DM	Feedipedia
Potato	Potato peel	Fresh	Inorganics	Manganese	34	mg/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Inorganics	Manganese	13	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Inorganics	Manganese	79	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Inorganics	Manganese	82	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Inorganics	Manganese	69	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Inorganics	Manganese	54	mg/kg DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Inorganics	Manganese	141	mg/kg DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Inorganics	Manganese	131	mg/kg DM	Feedipedia

Potato	Sweet potato	Tubers, fresh	Inorganics	Manganese	51	mg/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Inorganics	Manganese	9	mg/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Inorganics	Manganese	74	mg/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal		Inorganics	Manganese	1	mg/kg DM	Feedipedia
Poultry	Feather meal		Inorganics	Manganese	16	mg/kg DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Inorganics	Manganese	10	mg/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Inorganics	Manganese	16	mg/kg DM	Feedipedia
Fish, unspecified	Fish protein concentrate		Inorganics	Manganese	81	mg/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Inorganics	Manganese	16	mg/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	Cattle	Inorganics	Manganese	16	mg/kg DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Inorganics	Manganese	527	mg/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Inorganics	Manganese	26	mg/kg DM	Feedipedia
Poultry	Offal meal	Poultry	Inorganics	Manganese	18	mg/kg DM	Feedipedia

Cheese	Whey, dried	Acid, dehydrated, skimmed	Inorganics	Manganese	1	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Inorganics	Manganese	34	mg/kg DM	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Inorganics	Manganese	2	mg/kg DM	Feedipedia
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Manganese	73.5	mg/kg DM	ECN Phyllis 2
Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Manganese	460	mg/kg DM	ECN Phyllis 2

Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Manganese	2270	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Manganese	330	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Manganese	80	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Manganese	13	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Manganese	46	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Manganese	45	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Manganese	17	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Manganese	210.7	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Manganese	276.6	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Manganese	84	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Manganese	53	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Manganese	83	mg/kg DM	ECN Phyllis 2
Olive	Olive cake		Inorganics	Manganese	47	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Manganese	10.3	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Manganese	35.1	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Manganese	32	mg/kg DM	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Manganese	112.0	mg/kg ash	ECN Phyllis 2

Bean	Bean plant		Inorganics	Manganese	590	mg/kg ash	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Manganese	153	mg/kg ash	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Manganese	2690	mg/kg ash	ECN Phyllis 2
Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Manganese	363	mg/kg ash	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Manganese	202	mg/kg ash	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Manganese	456	mg/kg ash	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Manganese	374	mg/kg ash	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Manganese	700	mg/kg ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Manganese	1317	mg/kg ash	ECN Phyllis 2

Grape	Grape seeds	White, Italian	Inorganics	Manganese	19	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Red, Italian	Inorganics	Manganese	23	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Californian	Inorganics	Manganese	17	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Not ensiled	Inorganics	Manganese	20	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Ensiled for 45 days	Inorganics	Manganese	19	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	White, Italian	Inorganics	Manganese	17	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Red, Italian	Inorganics	Manganese	17	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Californian	Inorganics	Manganese	13	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Not ensiled	Inorganics	Manganese	15	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Ensiled for 45 days	Inorganics	Manganese	16	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Distillery by-products, unspecified	Distillers solids		Inorganics	Manganese	40	g/kg DM	Wet barley distillers solids as a protein source for growing pigs

Sugar beet	Sugar beet molasses		Inorganics	Manganese	0.6	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Inorganics	Manganese	0.8	g/kg DM	Feedipedia
Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Manganese	1.91	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Manganese	1.78	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Manganese	2.5	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Manganese	1.09	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Bolti	Bolti fish	Whole	Inorganics	Manganese	12.39	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate

Bolti	Bolti fish	Flesh only	Inorganics	Manganese	0.37	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Fish, unspecified	Fish protein isolate		Inorganics	Manganese	9.31	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Apple	Apple pomace		Inorganics	Manganese	4.3	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Manganese	3.94	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Manganese	<0.01	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Manganese	85.49	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Manganese	4.88	ppm d.b.	NOSHAN

Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Manganese	6.72	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Manganese	52.03	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Manganese	8.44	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Manganese	0.74	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Manganese	0.66	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Manganese	0.1	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Manganese	26.61	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Manganese	83.23	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Manganese	108.1	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Manganese	18.08	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Manganese	31.51	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Manganese	118.52	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Manganese	9.58	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Manganese	14.31	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Manganese	63.17	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Manganese	9.33	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Manganese	110.33	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Manganese	21.8	ppm d.b.	NOSHAN

Apple	Apple	Whole	Inorganics	Manganese	5.14	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Manganese	7.47	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Manganese	<0.01	ppm d.b.	NOSHAN
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Manganese	20	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations
Food, unspecified	Food leftovers	Source segregated domestic food waste in Luton, UK	Inorganics	Manganese	23	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Hackney, UK	Inorganics	Manganese	24	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Source segregated domestic food waste in Ludlow, UK	Inorganics	Manganese	20	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Eastleigh, UK	Inorganics	Manganese	23	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Manganese	5.7	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Manganese	19	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Manganese	10	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Manganese	15	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Manganese oxide (MnO)	0.03	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Manganese oxide (MnO)	0.08	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Manganese oxide (MnO)	0.04	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Manganese oxide (MnO)	0.06	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Manganese oxide (MnO)	0.05	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Manganese oxide (MnO)	0.06	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Manganese oxide (MnO)	0.05	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Ash	Inorganics	Manganese oxide (MnO2)	0.101	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash

Rice	Rice husk	Silica powder	Inorganics	Manganese oxide (MnO2)	0.0005	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Sugar by-products, unspecified	Bagasse		Proximates	Mannan	0	wt%, dry basis	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Proximates	Mannan	0.5	wt%, dry basis	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; end pressure MPa: 0.5	Proximates	Mannan	0.1	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; O2 pressure MPa: 0.6; end pressure MPa: 1.0	Proximates	Mannan	0.2	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; end pressure MPa: 0.7	Proximates	Mannan	0.2	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; O2 pressure MPa: 0.6; end pressure MPa: 1.7	Proximates	Mannan	0.1	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; end pressure MPa: 1.1	Proximates	Mannan	0.2	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; O2 pressure MPa: 0.6; end pressure MPa: 1.9	Proximates	Mannan	0.1	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; end pressure MPa: 1.4	Proximates	Mannan	0.2	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; O2 pressure MPa: 0.6; end pressure MPa: 2.2	Proximates	Mannan	0.1	wt%, dry basis	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Banana	Banana pintoza		Proximates	Mannan	1.82	wt%, dry basis	ECN Phyllis 2
Hop	Hops		Proximates	Mannan	1	wt%, dry basis	ECN Phyllis 2
Hop	Hops	Bast	Proximates	Mannan	1.2	wt%, dry basis	ECN Phyllis 2
Pineapple	Pineapple		Proximates	Mannan	0.2	wt%, dry basis	ECN Phyllis 2
Potato	Potato mash		Proximates	Mannan	0.21	wt%, dry basis	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Proximates	Mannan	0	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Mannan	0.2	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Mannan	0.1	wt%, dry basis	ECN Phyllis 2

Coconut	Coconut fibre		Proximates	Mannan	0.12	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Mannan	0.5	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Mannan	0.4	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Mannan	0.5	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Mannan	0.1	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Mannan	0.6	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Mannan	0.4	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Mannan	0.8	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut shell	Charcoal yield 41.4% at 1 MPa, fixed-C yield 30.1%	Proximates	Mannan	0	wt%, dry basis	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Mannan	0	wt%, dry basis	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Mannan	0.2	wt%, dry basis	ECN Phyllis 2
Nuts, unspecified	Nut shells	Kukui. Charcoal yield 58.6% at 1 MPa, fixed-C yield 41.4%	Proximates	Mannan	0	wt%, dry basis	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Proximates	Mannan	0	wt%, dry basis	ECN Phyllis 2

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Proximates	Mannitol	0.09	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Proximates	Mannitol	0	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Proximates	Mannitol	0	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Proximates	Mannitol	0.07	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Potato	Potato fibres	Pressed	Proximates	Mannose	100	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Mannose	<1	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Buffer insoluble solids		Proximates	Mannose	94	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Proximates	Mannose	<1	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Residue from pressed potato fibres		Proximates	Mannose	120	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Mannose	84	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Mannose	37	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Pears	Pear pomace		Proximates	Mannose	41	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Comparative study of alkaline extraction process of hemicelluloses from pear pomace

Grape	Grape stalks		Proximates	Mannose	4.8	%	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Wine by-products, unspecified	Holocellulose		Proximates	Mannose	1.4	%	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Apple	Pectin	Extracted, apple	Proximates	Mannose	0.83	% w/w d.b	Pectin from apple pomace: extraction, characterization and utilization
Wheat	Wheat bran extract	High starch. Origin of glucose is mainly starch	Proximates	Mannose	0.4	% DM	Comparison of two wheat bran extracts in the sheet extrusion process
Wheat	Wheat bran extract	High protein	Proximates	Mannose	0.2	% DM	Comparison of two wheat bran extracts in the sheet extrusion process

Orange	Orange pulp, dried		Proximates	Mannose	26.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Mannose	17	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Mannose	16	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Mannose	20	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Grape	Grape pomace	Deseeded, without stalk. Area of production: Alsace. Red and white grapes (Vitis vinifera)	Proximates	Mannose	2.66	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Aquitaine. Red and white grapes (Vitis vinifera)	Proximates	Mannose	4.67	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Beaujolais. Red and white grapes (Vitis vinifera)	Proximates	Mannose	2.11	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Bourgogne. Red and white grapes (Vitis vinifera)	Proximates	Mannose	3.2	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Champagne. Red and white grapes (Vitis vinifera)	Proximates	Mannose	1.87	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Languedoc. Red and white grapes (Vitis vinifera)	Proximates	Mannose	2.8	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Val de Loire. Red and white grapes (Vitis vinifera)	Proximates	Mannose	1.97	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Provence. Red and white grapes (Vitis vinifera)	Proximates	Mannose	2.78	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Potato	Potato fibres	Pressed	Proximates	Mannose	2	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Hot buffer soluble solids		Proximates	Mannose	<1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Buffer insoluble solids		Proximates	Mannose	2	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Proximates	Mannose	<1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Mannose	3	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Mannose	2	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Mannose	2	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Apple	Apple pomace		Proximates	Mannose	11.69	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Orange	Orange peel	Orange	Proximates	Mannose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Hop	Hops		Proximates	Mannose	10	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple cake		Proximates	Mannose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage		Proximates	Mannose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Mannose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Grape	Grape pomace		Proximates	Mannose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Olive	Olive pomace		Proximates	Mannose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Onion	Onion hulls		Proximates	Mannose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Rape	Rapeseed press cake		Proximates	Mannose	9.31	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Mannose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Mannose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Tomatoes	Tomato skin		Proximates	Mannose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple	Whole	Proximates	Mannose	9	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Pears	Pear	Whole	Proximates	Mannose	6	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple pomace		Proximates	Mannose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Orange	Orange peel	Orange	Proximates	Mannose	1	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Hop	Hops		Proximates	Mannose	8	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage		Proximates	Mannose	4	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Grape	Grape pomace		Proximates	Mannose	6	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Olive	Olive pomace		Proximates	Mannose	11	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Rape	Rapeseed press cake		Proximates	Mannose	9.64	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Apple	Apple	Whole	Proximates	Mannose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Pears	Pear	Whole	Proximates	Mannose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet molasses	From pulp	Proximates	Mannose	3	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Mannose	nd	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Mannose	2	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Carrot	Carrot		Proximates	Mannose	2	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Rye	Seed residue		Proximates	Mannose	5	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Mannose	3	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Mannose	5	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Mannose	51	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Mannose	8	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Mannose	11	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Mannose	2	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Mannose	3	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet molasses	From pulp	Proximates	Mannose	6	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Mannose	14	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Carrot	Carrot		Proximates	Mannose	5	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients

Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Mannose	0.49	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Mannose	0.36	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Mannose	1.48	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Proximates	Mannose	1.54	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Mannose	1.12	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Mannose	0.05	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Mannose	0.01	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Mannose	0.05	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Mannose	0.09	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Mannose	0.22	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Apple	Apple cake		Proximates	Mannose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Mannose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Onion	Onion hulls		Proximates	Mannose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Cabbage	Cabbage	Sour	Proximates	Mannose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Mannose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Tomatoes	Tomato skin		Proximates	Mannose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet		Proximates	Mannose	2	I-NCP (g/kg dm)	NOSHAN
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Mannose, soluble	6	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Mannose, soluble	7	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Mannose, soluble	13	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Apple	Apple pomace		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN

Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Mercury	<0.1	ppm d.b.	NOSHAN

Grape	Grape marc		Inorganics	Mercury	0.11	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Inorganics	Mercury	0.22	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Inorganics	Mercury	0.22	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape seeds		Inorganics	Mercury	0.21	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Inorganics	Mercury	0.05	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Inorganics	Mercury	0.03	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Tomatoes	Tomato peel		Inorganics	Mercury	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Inorganics	Mercury	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Inorganics	Mercury	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato meal		Inorganics	Mercury	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Inorganics	Mercury	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Inorganics	Mercury	<1	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Mercury	0	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Mercury	0.1	mg/kg DM	ECN Phyllis 2
Apple	Apple	Average of 50 samples	Inorganics	Mercury	0	mg/kg DM	ECN Phyllis 2
Carrot	Carrot	Average of 46 samples	Inorganics	Mercury	0	mg/kg DM	ECN Phyllis 2

Carrot	Carrot		Inorganics	Mercury	0	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Mercury	0.1	mg/kg DM	ECN Phyllis 2
Cauliflower	Cauliflower		Inorganics	Mercury	0	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber	Average of 46 samples	Inorganics	Mercury	0	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Mercury	0.4	mg/kg DM	ECN Phyllis 2
Leek	Leek		Inorganics	Mercury	0	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce	Average of 54 samples	Inorganics	Mercury	0	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce	Average of 21 samples	Inorganics	Mercury	0	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Mercury	0.1	mg/kg DM	ECN Phyllis 2
Potato	Potato	Average of 55 samples	Inorganics	Mercury	0	mg/kg DM	ECN Phyllis 2
Potato	Potato	Average of 40 samples	Inorganics	Mercury	0	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 6 samples	Inorganics	Mercury	0	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 36 samples	Inorganics	Mercury	0.2	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 40 samples	Inorganics	Mercury	0	mg/kg DM	ECN Phyllis 2
Spinach	Spinach		Inorganics	Mercury	1.7	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Mercury	0.1	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Mercury	0.3	mg/kg DM	ECN Phyllis 2

Poultry	Hatchery waste		Inorganics	Mercury	<0.2	mg/kg	Composition of Australian meat chicken hatchery waste
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Mercury	<0.003	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations
Grape	Grape pomace		Undesirable components	Metalaxyl	0.125	mg/kg	NOSHAN
Apple	Apple waste	Processing waste: filtration cake, pulp	Waste compounds	Methane (CH4)	166	LN/kg volatile solids	Online European Feedstock Atlas basis version
Apple	Apple pomace	Fresh	Waste compounds	Methane (CH4)	416	LN/kg volatile solids	Online European Feedstock Atlas basis version
Grape	Grape marc	Fresh	Waste compounds	Methane (CH4)	160	LN/kg volatile solids	Online European Feedstock Atlas basis version

Wheat	Wheat middlings		Waste compounds	Methane (CH4)	429	LN/kg volatile solids	Online European Feedstock Atlas basis version
Barley	Barley grains		Waste compounds	Methane (CH4)	381	LN/kg volatile solids	Online European Feedstock Atlas basis version
Barley	Barley, total plants silage		Waste compounds	Methane (CH4)	326	LN/kg volatile solids	Online European Feedstock Atlas basis version
Barley	Barley	Whole plant, fresh	Waste compounds	Methane (CH4)	408	LN/kg volatile solids	Online European Feedstock Atlas basis version
Wheat	Wheat grain		Waste compounds	Methane (CH4)	381	LN/kg volatile solids	Online European Feedstock Atlas basis version
Wheat	Wheat	Total plants silage	Waste compounds	Methane (CH4)	298	LN/kg volatile solids	Online European Feedstock Atlas basis version

Wheat	Wheat	Whole plant, fresh	Waste compounds	Methane (CH4)	404	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed grains		Waste compounds	Methane (CH4)	691	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed	Total plants silage	Waste compounds	Methane (CH4)	438	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed	Whole plant, fresh	Waste compounds	Methane (CH4)	421	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sunflower	Sunflower seeds		Waste compounds	Methane (CH4)	709	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sunflower	Sunflower	Total plants silage	Waste compounds	Methane (CH4)	288	LN/kg volatile solids	Online European Feedstock Atlas basis version

Sunflower	Sunflower	Whole plant, fresh	Waste compounds	Methane (CH4)	414	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato	Fresh	Waste compounds	Methane (CH4)	389	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato	Silage	Waste compounds	Methane (CH4)	389	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet	Beet only, fresh	Waste compounds	Methane (CH4)	388	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet	Total plants silage	Waste compounds	Methane (CH4)	390	LN/kg volatile solids	Online European Feedstock Atlas basis version
Pineapple	Pineapple		Waste compounds	Methane (CH4)	391	LN/kg volatile solids	Online European Feedstock Atlas basis version

Bakery	Bakery residues		Waste compounds	Methane (CH4)	423	LN/kg volatile solids	Online European Feedstock Atlas basis version
Barley	Barley bran		Waste compounds	Methane (CH4)	420	LN/kg volatile solids	Online European Feedstock Atlas basis version
Barley	Barley feeding meal		Waste compounds	Methane (CH4)	420	LN/kg volatile solids	Online European Feedstock Atlas basis version
Bran	Bran and cereal strip waste (70:30)	Fresh	Waste compounds	Methane (CH4)	289	LN/kg volatile solids	Online European Feedstock Atlas basis version
Cereal, unspecified	Cereal strip waste	Fresh	Waste compounds	Methane (CH4)	350	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rice	Rice feeding meal		Waste compounds	Methane (CH4)	488	LN/kg volatile solids	Online European Feedstock Atlas basis version

Wheat	Wheat bran		Waste compounds	Methane (CH4)	386	LN/kg volatile solids	Online European Feedstock Atlas basis version
Wheat	Wheat germs		Waste compounds	Methane (CH4)	469	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato products	Chip fat		Waste compounds	Methane (CH4)	151	LN/kg volatile solids	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's grains		Waste compounds	Methane (CH4)	503	LN/kg volatile solids	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's grains and yeast		Waste compounds	Methane (CH4)	385	LN/kg volatile solids	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Waste compounds	Methane (CH4)	460	LN/kg volatile solids	Online European Feedstock Atlas basis version

Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Waste compounds	Methane (CH4)	465	LN/kg volatile solids	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Waste compounds	Methane (CH4)	447	LN/kg volatile solids	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's yeast	Fresh	Waste compounds	Methane (CH4)	451	LN/kg volatile solids	Online European Feedstock Atlas basis version
Distillers grain	Distillers grain, dried	Dried, solubles only	Waste compounds	Methane (CH4)	453	LN/kg volatile solids	Online European Feedstock Atlas basis version
Distillers grain	Distillers grain, dried	Dried	Waste compounds	Methane (CH4)	462	LN/kg volatile solids	Online European Feedstock Atlas basis version
Distillers grain	Distillers grain	Fresh	Waste compounds	Methane (CH4)	473	LN/kg volatile solids	Online European Feedstock Atlas basis version

Distillery by-products, unspecified	Distillers residues	Fresh	Waste compounds	Methane (CH4)	442	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato pulp	Fresh	Waste compounds	Methane (CH4)	362	LN/kg volatile solids	Online European Feedstock Atlas basis version
Food, unspecified	Food leftovers		Waste compounds	Methane (CH4)	512	LN/kg volatile solids	Online European Feedstock Atlas basis version
Tea	Medicinal tea	Fresh	Waste compounds	Methane (CH4)	199	LN/kg volatile solids	Online European Feedstock Atlas basis version
Animal by-products, unspecified	Animal fats		Waste compounds	Methane (CH4)	1001	LN/kg volatile solids	Online European Feedstock Atlas basis version
Fish, unspecified	Fish liver meal		Waste compounds	Methane (CH4)	660	LN/kg volatile solids	Online European Feedstock Atlas basis version

Fish, unspecified	Fish meal		Waste compounds	Methane (CH4)	526	LN/kg volatile solids	Online European Feedstock Atlas basis version
Animal by-products, unspecified	Meat waste		Waste compounds	Methane (CH4)	583	LN/kg volatile solids	Online European Feedstock Atlas basis version
Poultry	Offals	Poultry meat offals	Waste compounds	Methane (CH4)	570	LN/kg volatile solids	Online European Feedstock Atlas basis version
Corn	Maize gluten feed		Waste compounds	Methane (CH4)	432	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato chips		Waste compounds	Methane (CH4)	387	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato flakes		Waste compounds	Methane (CH4)	387	LN/kg volatile solids	Online European Feedstock Atlas basis version

Potato	Potato press water		Waste compounds	Methane (CH4)	396	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato pulp, dried	Dried	Waste compounds	Methane (CH4)	396	LN/kg volatile solids	Online European Feedstock Atlas basis version
Potato	Potato starch		Waste compounds	Methane (CH4)	391	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sweets	Residue from production of sweets		Waste compounds	Methane (CH4)	376	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet, dried	Chips	Waste compounds	Methane (CH4)	430	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar cane	Sugar cane molasses	Melasse	Waste compounds	Methane (CH4)	395	LN/kg volatile solids	Online European Feedstock Atlas basis version

Sugar cane	Sugar cane molasses	Chips, melasse	Waste compounds	Methane (CH4)	391	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet molasses residues		Waste compounds	Methane (CH4)	428	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet pulp, dried	Dried	Waste compounds	Methane (CH4)	392	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet pulp	Fresh	Waste compounds	Methane (CH4)	386	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet pulp	Silage	Waste compounds	Methane (CH4)	397	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet scraps		Waste compounds	Methane (CH4)	416	LN/kg volatile solids	Online European Feedstock Atlas basis version

Sugar beet	Sugar beet taproots		Waste compounds	Methane (CH4)	481	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar	Sugar for feeding		Waste compounds	Methane (CH4)	376	LN/kg volatile solids	Online European Feedstock Atlas basis version
Coconut	Coconut cake/expeller		Waste compounds	Methane (CH4)	452	LN/kg volatile solids	Online European Feedstock Atlas basis version
Coconut	Coconut meal	Extraction meal	Waste compounds	Methane (CH4)	426	LN/kg volatile solids	Online European Feedstock Atlas basis version
Cotton	Cottonseed cake/expeller		Waste compounds	Methane (CH4)	477	LN/kg volatile solids	Online European Feedstock Atlas basis version
Cotton	Cottonseed extraction meal		Waste compounds	Methane (CH4)	444	LN/kg volatile solids	Online European Feedstock Atlas basis version

Flax/linseed	Flax cake/expeller		Waste compounds	Methane (CH4)	466	LN/kg volatile solids	Online European Feedstock Atlas basis version
Flax/linseed	Flax extraction meal		Waste compounds	Methane (CH4)	442	LN/kg volatile solids	Online European Feedstock Atlas basis version
Hemp	Hemp press cake	Fresh	Waste compounds	Methane (CH4)	77	LN/kg volatile solids	Online European Feedstock Atlas basis version
Corn	Maize germ cake/expeller		Waste compounds	Methane (CH4)	434	LN/kg volatile solids	Online European Feedstock Atlas basis version
Olive	Olive pulp		Waste compounds	Methane (CH4)	155	LN/kg volatile solids	Online European Feedstock Atlas basis version
Palm	Palm kernel cake/expeller		Waste compounds	Methane (CH4)	452	LN/kg volatile solids	Online European Feedstock Atlas basis version

Palm	Palm kernel meal	Extraction meal	Waste compounds	Methane (CH4)	415	LN/kg volatile solids	Online European Feedstock Atlas basis version
Nuts, unspecified	Nut cake/expeller	Peanut	Waste compounds	Methane (CH4)	482	LN/kg volatile solids	Online European Feedstock Atlas basis version
Nuts, unspecified	Nut extraction meal	Peanut	Waste compounds	Methane (CH4)	442	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed		Waste compounds	Methane (CH4)	426	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed cake/expeller		Waste compounds	Methane (CH4)	495	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed meal	Extraction meal	Waste compounds	Methane (CH4)	440	LN/kg volatile solids	Online European Feedstock Atlas basis version

Safflower	Safflower meal	Extraction meal	Waste compounds	Methane (CH4)	425	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sesame	Sesame meal	Extraction meal	Waste compounds	Methane (CH4)	446	LN/kg volatile solids	Online European Feedstock Atlas basis version
Soy	Soybean meal	Extraction meal	Waste compounds	Methane (CH4)	446	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sunflower	Sunflower cake/expeller		Waste compounds	Methane (CH4)	477	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sunflower	Sunflower meal	Extraction meal	Waste compounds	Methane (CH4)	438	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sunflower	Sunflower peelings		Waste compounds	Methane (CH4)	288	LN/kg volatile solids	Online European Feedstock Atlas basis version

Sugar beet	Sugar beet leaves	Fresh, for feeding	Waste compounds	Methane (CH4)	414	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet leaves	Silage, for feeding	Waste compounds	Methane (CH4)	417	LN/kg volatile solids	Online European Feedstock Atlas basis version
Corn	Maize strip waste		Waste compounds	Methane (CH4)	472	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed straw		Waste compounds	Methane (CH4)	301	LN/kg volatile solids	Online European Feedstock Atlas basis version
Rape	Rapeseed strip waste		Waste compounds	Methane (CH4)	324	LN/kg volatile solids	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet leaves and tops	Silage	Waste compounds	Methane (CH4)	344	LN/kg volatile solids	Online European Feedstock Atlas basis version

Sugar beet	Sugar beet leaves	Silage	Waste compounds	Methane (CH4)	417	LN/kg volatile solids	Online European Feedstock Atlas basis version
Wheat	Wheat straw		Waste compounds	Methane (CH4)	268	LN/kg volatile solids	Online European Feedstock Atlas basis version
Wheat	Wheat strip waste		Waste compounds	Methane (CH4)	470	LN/kg volatile solids	Online European Feedstock Atlas basis version
Apple	Apple waste		Waste compounds	Methane (CH4)	44-58	%	Cropgen database
Beef	Paunch		Waste compounds	Methane (CH4)	55	%	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Dissolved air flotation sludge		Waste compounds	Methane (CH4)	60	%	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Soft offal		Waste compounds	Methane (CH4)	69	%	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Mixture of paunch, dissolved air flotation sludge and soft offal at annual production ratios		Waste compounds	Methane (CH4)	63	%	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Apple	Apple		Waste compounds	Methane (CH4)	0.317	m3/kg volatile solids	Cropgen database
Banana	Banana	Musa paradisiaca, growth stage at harvest: peeling	Waste compounds	Methane (CH4)	0.3625	m3/kg volatile solids	Cropgen database
Banana	Banana peel	Musa paradisiaca, fresh riped fruit	Waste compounds	Methane (CH4)	0.2974	m3/kg volatile solids	Cropgen database
Cabbage	Cabbage	Brassica oleracea var Capitata. Growth stage at harvest: leaves	Waste compounds	Methane (CH4)	0.309	m3/kg volatile solids	Cropgen database

Cabbage	Cabbage	Brassica oleracea var Capitata. Growth stage at harvest: stem	Waste compounds	Methane (CH4)	0.291	m3/kg volatile solids	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: leaves	Waste compounds	Methane (CH4)	0.241	m3/kg volatile solids	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: petiole	Waste compounds	Methane (CH4)	0.309	m3/kg volatile solids	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: vegetative stage+root	Waste compounds	Methane (CH4)	0.33	m3/kg volatile solids	Cropgen database
Carrot	Carrot waste		Waste compounds	Methane (CH4)	0.417	m3/kg volatile solids	Cropgen database
Carrot	Carrot		Waste compounds	Methane (CH4)	0.388	m3/kg volatile solids	Cropgen database

Carrot	Carrot	Harvest time: September, growth stage at time of harvest: fully grown	Waste compounds	Methane (CH4)	0.368	m3/kg volatile solids	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Waste compounds	Methane (CH4)	0.42	m3/kg volatile solids	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Waste compounds	Methane (CH4)	0.19	m3/kg volatile solids	Cropgen database
Cauliflower	Cauliflower stem	Brassica Oleracea var. Botrytis	Waste compounds	Methane (CH4)	0.331	m3/kg volatile solids	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Waste compounds	Methane (CH4)	0.352	m3/kg volatile solids	Cropgen database
Distillers grain	Grain, mash		Waste compounds	Methane (CH4)	0.364766	m3/kg volatile solids	Cropgen database
Distillers grain	Grain, strip waste		Waste compounds	Methane (CH4)	0.35424	m3/kg volatile solids	Cropgen database
Grape	Grape marc	<1mm grinded	Waste compounds	Methane (CH4)	0.160146	m3/kg volatile solids	Cropgen database
Grape	Grape vine	Vitis vinifera, growth stage: pressings	Waste compounds	Methane (CH4)	0.283	m3/kg volatile solids	Cropgen database

Grape	Grape vine	Vitis vinifera, growth stage: peduncle (stalk of grape bunch)	Waste compounds	Methane (CH4)	0.18	m3/kg volatile solids	Cropgen database
Lemon	Lemon	Citrus limon, growth stage: pressings	Waste compounds	Methane (CH4)	0.473	m3/kg volatile solids	Cropgen database
Orange	Orange peel	Mandarin, loose skinned. Citrus reticulata, growth stage at harvest: fresh riped fruits - peels	Waste compounds	Methane (CH4)	0.486	m3/kg volatile solids	Cropgen database
Orange	Orange pressings	Mandarin, loose skinned. Citrus reticulata, growth stage at harvest: fresh riped fruits - pressings	Waste compounds	Methane (CH4)	0.433	m3/kg volatile solids	Cropgen database

Orange	Orange	Whole rotten fruit, loose skinned. Citrus reticulata, growth stage at harvest: whole rotten fruit	Waste compounds	Methane (CH4)	0.494	m3/kg volatile solids	Cropgen database
Orange	Orange seeds	Mandarin, loose skinned. Citrus reticulata, growth stage at harvest: seeds	Waste compounds	Methane (CH4)	0.732	m3/kg volatile solids	Cropgen database
Coffee	Malt coffee marc		Waste compounds	Methane (CH4)	0.30975	m3/kg volatile solids	Cropgen database
Fruit and vegetables, unspecified	Market waste, fruit and vegetables	Mesophilic	Waste compounds	Methane (CH4)	0.38	m3/kg volatile solids	Cropgen database
Fruit and vegetables, unspecified	Market waste, fruit and vegetables	Thermophilic	Waste compounds	Methane (CH4)	0.49	m3/kg volatile solids	Cropgen database

Rape	Oil seed rape	Brassica napus, growth stage at harvest: reproductive stage (pod filled)	Waste compounds	Methane (CH4)	0.2905	m3/kg volatile solids	Cropgen database
Onion	Onion	Allium cepa, growth stage at harvest: exterior peels	Waste compounds	Methane (CH4)	0.4	m3/kg volatile solids	Cropgen database
Orange	Orange		Waste compounds	Methane (CH4)	0.297	m3/kg volatile solids	Cropgen database
Pineapple	Pineapple peels	Ananans sativus, growth stage at harvest: peels	Waste compounds	Methane (CH4)	0.357	m3/kg volatile solids	Cropgen database
Pineapple	Pineapple leafy shoot	Ananans sativus, growth stage at harvest: leafy shoot	Waste compounds	Methane (CH4)	0.355	m3/kg volatile solids	Cropgen database
Pineapple	Pineapple waste		Waste compounds	Methane (CH4)	0.568	m3/kg volatile solids	Cropgen database
Potato	Potato peel	Solanum tuberosum, growth stage at harvest: peels	Waste compounds	Methane (CH4)	0.267	m3/kg volatile solids	Cropgen database

Potato	Potato		Waste compounds	Methane (CH4)	0.427	m3/kg volatile solids	Cropgen database
Potato	Potato	Harvest time: July-Sept	Waste compounds	Methane (CH4)	0.215	m3/kg volatile solids	Cropgen database
Potato	Potato amniotic fluid (starch production)		Waste compounds	Methane (CH4)	0.51617	m3/kg volatile solids	Cropgen database
Potato	Potato mash	Starch production	Waste compounds	Methane (CH4)	0.366656	m3/kg volatile solids	Cropgen database
Potato	Potato process water	Starch production	Waste compounds	Methane (CH4)	0.27495	m3/kg volatile solids	Cropgen database
Potato	Potato pulp		Waste compounds	Methane (CH4)	0.2784	m3/kg volatile solids	Cropgen database
Potato	Potato	Shredder	Waste compounds	Methane (CH4)	0.41132	m3/kg volatile solids	Cropgen database
Rape	Rape	Brassica napus, growth stage: tops	Waste compounds	Methane (CH4)	0.332	m3/kg volatile solids	Cropgen database
Rape	Rape cake	Pressed cold	Waste compounds	Methane (CH4)	0.4887	m3/kg volatile solids	Cropgen database
Rape	Rapeseed	Usual harvest time for animal food	Waste compounds	Methane (CH4)	0.336	m3/kg volatile solids	Cropgen database
Rape	Rapeseed straw	Brassica rapa spp. Oleifera	Waste compounds	Methane (CH4)	0.24	m3/kg volatile solids	Cropgen database
Sugar beet	Sugar beet	Beta vulgaris	Waste compounds	Methane (CH4)	0.381	m3/kg volatile solids	Cropgen database

Sugar beet	Sugar beet		Waste compounds	Methane (CH4)	0.385175	m3/kg volatile solids	Cropgen database
Sugar beet	Sugar beet leaves	Silage	Waste compounds	Methane (CH4)	0.235907	m3/kg volatile solids	Cropgen database
Sunflower	Sunflower	Maturity Index [Maize/DM Yield per ha]: /55,5, XP [%] 7.11, XF [%DM] 58.89, Nfe [%DM] 15.29, ME [Mj/kg] 8.5	Waste compounds	Methane (CH4)	0.23	m3/kg volatile solids	Cropgen database
Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Waste compounds	Methane (CH4)	0.17	m3/kg volatile solids	Cropgen database
Orange	Orange peel	Orange, sweet, tight skinned. Citrus sinensis, growth stage at harvest: peels	Waste compounds	Methane (CH4)	0.455	m3/kg volatile solids	Cropgen database

Orange	Orange pressings	Orange, sweet, tight skinned. Citrus sinensis, growth stage at harvest: pressings	Waste compounds	Methane (CH4)	0.502	m3/kg volatile solids	Cropgen database
Tomatoes	Tomato	Whole, rotten. Lycopersicon esculentum var. Pyriforme	Waste compounds	Methane (CH4)	0.211	m3/kg volatile solids	Cropgen database
Tomatoes	Tomato	Whole, rotten. Lycopersicon esculentum var. Commune	Waste compounds	Methane (CH4)	0.384	m3/kg volatile solids	Cropgen database
Sugar beet	Sugar beet tops	Residual	Waste compounds	Methane (CH4)	0.34	m3/kg volatile solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: pasty	Waste compounds	Methane (CH4)	0.384	m3/kg volatile solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: milky	Waste compounds	Methane (CH4)	0.387	m3/kg volatile solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: flowering	Waste compounds	Methane (CH4)	0.418	m3/kg volatile solids	Cropgen database

Wheat	Wheat	Triticum aestivum, growth stage at harvest: straw	Waste compounds	Methane (CH4)	0.254	m3/kg volatile solids	Cropgen database
Wheat	Wheat grain		Waste compounds	Methane (CH4)	0.162	m3/kg volatile solids	Cropgen database
Wheat	Wheat straw		Waste compounds	Methane (CH4)	0.36672	m3/kg volatile solids	Cropgen database
Cabbage	Cabbage leaves	White. Brassica oleracea var. capitata	Waste compounds	Methane (CH4)	0.3625	m3/kg volatile solids	Cropgen database
Banana	Banana	Musa paradisiaca, growth stage at harvest: peeling	Waste compounds	Methane (CH4)	0.3	m3/kg total solids	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: vegetative stage+root	Waste compounds	Methane (CH4)	0.29315	m3/kg total solids	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Waste compounds	Methane (CH4)	0.343	m3/kg total solids	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Waste compounds	Methane (CH4)	0.295	m3/kg total solids	Cropgen database

Rape	Oil seed rape	Brassica napus, growth stage at harvest: reproductive stage (pod filled)	Waste compounds	Methane (CH4)	0.26957	m3/kg total solids	Cropgen database
Rape	Rapeseed straw	Brassica rapa spp. Oleifera	Waste compounds	Methane (CH4)	0.22	m3/kg total solids	Cropgen database
Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Waste compounds	Methane (CH4)	0.16	m3/kg total solids	Cropgen database
Sugar beet	Sugar beet tops	Residual	Waste compounds	Methane (CH4)	0.29	m3/kg total solids	Cropgen database
Wheat	Wheat	Triticum aestivum, growth stage at harvest: straw	Waste compounds	Methane (CH4)	0.207	m3/kg total solids	Cropgen database
Wheat	Wheat grain		Waste compounds	Methane (CH4)	0.138	m3/kg total solids	Cropgen database
Rape	Rapeseed straw	Brassica rapa spp. Oleifera	Waste compounds	Methane (CH4)	198.7	m3/tonne wet weight	Cropgen database

Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Waste compounds	Methane (CH4)	145	m3/tonne wet weight	Cropgen database
Sugar beet	Sugar beet tops	Residual	Waste compounds	Methane (CH4)	34.1	m3/tonne wet weight	Cropgen database
Apple	Apple waste		Waste compounds	Methane (CH4)	0.437	kg/TS	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: vegetative stage+root	Waste compounds	Methane (CH4)	30.987	kg/TS	Cropgen database
Rape	Oil seed rape	Brassica napus, growth stage at harvest: reproductive stage (pod filled)	Waste compounds	Methane (CH4)	70.703	kg/TS	Cropgen database

Food, unspecified	Food leftovers	Source separated food waste	Waste compounds	Methane (CH4)	0.380	m3/kg volatile solids	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment
Beef	Cattle manure	Slurry	Waste compounds	Methane (CH4)	0.185	m3/kg volatile solids	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment
Abattoir wastes, unspecified	Slaughterhouse rumen contents		Waste compounds	Methane capacity	300	l CH4/kg dry organic matter	Anaerobic treatment of slaughterhouse waste and wastewater
Abattoir wastes, unspecified	Slaughterhouse rumen press water		Waste compounds	Methane capacity	280	l CH4/kg dry organic matter	Anaerobic treatment of slaughterhouse waste and wastewater

Abattoir wastes, unspecified	Slaughterhouse screenings		Waste compounds	Methane capacity	650	l CH4/kg dry organic matter	Anaerobic treatment of slaughterhouse waste and wastewater
Abattoir wastes, unspecified	Slaughterhouse grease trap residues		Waste compounds	Methane capacity	710	l CH4/kg dry organic matter	Anaerobic treatment of slaughterhouse waste and wastewater
Abattoir wastes, unspecified	Slaughterhouse flotation tailings		Waste compounds	Methane capacity	700	l CH4/kg dry organic matter	Anaerobic treatment of slaughterhouse waste and wastewater
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Waste compounds	Methane content (CH4)	0.676	N/A	Cropgen database
Distillers grain	Grain, mash		Waste compounds	Methane content (CH4)	0.542	N/A	Cropgen database
Distillers grain	Grain, strip waste		Waste compounds	Methane content (CH4)	0.54	N/A	Cropgen database
Grape	Grape marc	<1mm grinded	Waste compounds	Methane content (CH4)	0.558	N/A	Cropgen database
Coffee	Malt coffee marc		Waste compounds	Methane content (CH4)	0.59	N/A	Cropgen database
Pineapple	Pineapple waste		Waste compounds	Methane content (CH4)	50-63	N/A	Cropgen database

Potato	Potato	Harvest time: July-Sept	Waste compounds	Methane content (CH4)	0.51	N/A	Cropgen database
Potato	Potato amniotic fluid (starch production)		Waste compounds	Methane content (CH4)	0.71	N/A	Cropgen database
Potato	Potato mash	Starch production	Waste compounds	Methane content (CH4)	0.544	N/A	Cropgen database
Potato	Potato process water	Starch production	Waste compounds	Methane content (CH4)	0.65	N/A	Cropgen database
Potato	Potato pulp		Waste compounds	Methane content (CH4)	0.58	N/A	Cropgen database
Potato	Potato	Shredder	Waste compounds	Methane content (CH4)	0.565	N/A	Cropgen database
Rape	Rape	Brassica napus, growth stage: tops	Waste compounds	Methane content (CH4)	0.7075	N/A	Cropgen database
Rape	Rape cake	Pressed cold	Waste compounds	Methane content (CH4)	0.543	N/A	Cropgen database
Rape	Rape FM		Waste compounds	Methane content (CH4)	0.57	N/A	Cropgen database
Rape	Rapeseed	Usual harvest time for animal food	Waste compounds	Methane content (CH4)	0.604	N/A	Cropgen database
Sugar beet	Sugar beet	Beta vulgaris	Waste compounds	Methane content (CH4)	0.689	N/A	Cropgen database
Sugar beet	Sugar beet		Waste compounds	Methane content (CH4)	0.497	N/A	Cropgen database

Sugar beet	Sugar beet leaves	Silage	Waste compounds	Methane content (CH4)	0.469	N/A	Cropgen database
Wheat	Wheat	Growth stage at harvest: pasty	Waste compounds	Methane content (CH4)	0.5943	N/A	Cropgen database
Wheat	Wheat	Growth stage at harvest: milky	Waste compounds	Methane content (CH4)	0.6052	N/A	Cropgen database
Wheat	Wheat	Growth stage at harvest: flowering	Waste compounds	Methane content (CH4)	0.5706	N/A	Cropgen database
Wheat	Wheat straw		Waste compounds	Methane content (CH4)	0.48	N/A	Cropgen database
Cabbage	Cabbage leaves	White. Brassica oleracea var. capitata	Waste compounds	Methane content (CH4)	0.6755	N/A	Cropgen database

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Waste compounds	Methanol	0.36	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Waste compounds	Methanol	0.21	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Waste compounds	Methanol	0.11	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Waste compounds	Methanol	0.21	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Waste compounds	Methanol	100	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Waste compounds	Methanol	100	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Apple	Apple pomace		Proximates	Methionine	0	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Methionine	0	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Methionine	2.18	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Methionine	0.68	mg/g dry matter	NOSHAN

Canola	Canola meal		Proximates	Methionine	8.1	mg/g dry matter	A comparative study on amino acid availability of moist heated canla meal for poultry vs. ruminants
Apple	Apple cake		Proximates	Methionine	0	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Methionine	1.73	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Methionine	2.27	mg/g dry matter	NOSHAN
Cabbage	Cabbage		Proximates	Methionine	0.65	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Methionine	11.01	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Methionine	7.89	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Methionine	17.76	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Methionine	1.47	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Methionine	0	mg/g dry matter	NOSHAN

Barley	Malted barley germs		Proximates	Methionine	1.38	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Methionine	2.3	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Methionine	3.4	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Methionine	0.94	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Methionine	0.49	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Methionine	0	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Methionine	0.55	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Methionine	0.69	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Methionine	1.84	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Methionine	0.4	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Methionine	0.25	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Methionine	0.37	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Methionine	0	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Methionine	0.16	mg/g dry matter	NOSHAN

Yoghurt	Yoghurt		Proximates	Methionine	5.92	mg/g dry matter	NOSHAN
Canola	Canola meal	Average of analysed values	Proximates	Methionine	6.9	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Rape	Rapeseed hulls	Purified	Proximates	Methionine	2.2	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Fish, unspecified	Fish meal		Proximates	Methionine	17.4	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Methionine	7.3	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Methionine	5.3	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Methionine	6.8	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Methionine	4.2	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Cabbage	Cabbage meal		Proximates	Methionine	5.1	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Citrus, unspecified	Citrus meal, dried		Proximates	Methionine	0.9	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Methionine	0.71	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Methionine	1.0	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Methionine	0.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Methionine	9.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Methionine	9.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Methionine	8.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Methionine	9.7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Methionine	9.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Methionine	9.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Methionine	9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Methionine	8.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Methionine	9.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Methionine	5.24	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Methionine	5.46	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Nuts, unspecified	Nut meal	Babacu	Proximates	Methionine	3.8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Proximates	Methionine	3.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cassava	Cassava meal		Proximates	Methionine	0.4	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Proximates	Methionine	2.8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Proximates	Methionine	10.6	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cotton	Cottonseed meal	solv	Proximates	Methionine	6.1	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Proximates	Methionine	8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Proximates	Methionine	4.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Rice	Rice bran	Defatted	Proximates	Methionine	3.7	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Proximates	Methionine	4.6	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Wheat	Wheat bran		Proximates	Methionine	2.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Canola	Juncea canola meal		Proximates	Methionine	7.4	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Methionine	0.8	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Methionine	0.99	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Rye	Seed residue		Proximates	Methionine	1.49	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Methionine	1.1	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Methionine	1.96	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Methionine	1.72	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Methionine	1.23	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Methionine	1.83	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Methionine	1.33	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Methionine	1.71	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Distillery by-products, unspecified	Distillers solids		Proximates	Methionine	22	g/160g nitrogen	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Barley	Barley		Proximates	Methionine	17	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs

Soy	Soybean meal	Soyabean meal	Proximates	Methionine	13	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Methionine	24	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Methionine	14.1	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Methionine	18.2	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Methionine	0.93	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Methionine	0.92	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Methionine	0.93	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Methionine	6.76	% protein	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Methionine	9.52	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Methionine	5.64	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Methionine	4.9	% protein	Chemical characterization of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Methionine	2.2	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Methionine	1.6	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Methionine	1.4	% protein	Feedipedia

Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Methionine	1.4	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Methionine	1.5	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Methionine	2.1	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Methionine	2.4	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Methionine	1.4	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Methionine	2	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Methionine	1.9	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Methionine	1.8	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Methionine	1.9	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Methionine	2.3	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Methionine	2.2	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Methionine	1.9	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Methionine	2.4	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Methionine	1.9	% protein	Feedipedia

Rice	Rice bran	Defatted, fibre >20%	Proximates	Methionine	2.1	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Methionine	2.3	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Methionine	1.8	% protein	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Methionine	1	% protein	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Methionine	1.4	% protein	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Methionine	3.4	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Methionine	1.7	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Methionine	1.5	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Methionine	1.7	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Methionine	1.9	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Methionine	1.7	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Methionine	1.5	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Methionine	1.5	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Methionine	1.6	% protein	Feedipedia

Wheat	Wheat germs		Proximates	Methionine	1.7	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Methionine	1.6	% protein	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Methionine	1.8	% protein	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Methionine	1.4	% protein	Feedipedia
Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Methionine	1.3	% protein	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Methionine	1.5	% protein	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Methionine	1.3	% protein	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Methionine	1.3	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Methionine	0.6	% protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Methionine	1.3	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Methionine	1.4	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Methionine	1.4	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Methionine	1.8	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Methionine	1.4	% protein	Feedipedia
Grape	Grape seeds		Proximates	Methionine	1.1	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Methionine	1.9	% protein	Feedipedia

Flax/linseed	Linseed meal	Solvent extraction	Proximates	Methionine	1	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Methionine	2	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Methionine	1.7	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Methionine	1.7	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Methionine	1.9	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Methionine	2	% protein	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Methionine	1.5	% protein	Feedipedia
Palm	Oil palm kernels		Proximates	Methionine	2.1	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Methionine	1.8	% protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Methionine	1.7	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Methionine	6.9	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Methionine	1.2	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Methionine	1.2	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Methionine	1	% protein	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Methionine	1.1	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Methionine	1	% protein	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Methionine	0.4	% protein	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Methionine	2.6	% protein	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Methionine	2.1	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Methionine	0.1	% protein	Feedipedia
Pumpkin	Pumpkin seeds	Cucurbita sp.	Proximates	Methionine	2.1	% protein	Feedipedia
Rape	Rapeseed hulls		Proximates	Methionine	2	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Methionine	2	% protein	Feedipedia

Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Methionine	2.2	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Methionine	2	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Methionine	2	% protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Methionine	0.8	% protein	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Methionine	1.4	% protein	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Methionine	1.5	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Methionine	2.7	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Methionine	3	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Methionine	1.4	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Methionine	1.1	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Methionine	1.4	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Methionine	1.4	% protein	Feedipedia

Soy	Soybean meal	High oil (expeller)	Proximates	Methionine	1.4	% protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Methionine	1.4	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Methionine	1.7	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Methionine	1.4	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Methionine	1.4	% protein	Feedipedia
Sunflower	Sunflower screenings		Proximates	Methionine	2.6	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Methionine	2.3	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Methionine	2.3	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Methionine	2.3	% protein	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Methionine	2.3	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Methionine	2.2	% protein	Feedipedia

Tomatoes	Tomato oil cake		Proximates	Methionine	0.2	% protein	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Methionine	1.2	% protein	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Proximates	Methionine	1.4	% protein	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Methionine	2	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Methionine	0.9	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Methionine	1.2	% protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Methionine	1.3	% protein	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Methionine	1	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Methionine	0.3	% protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Methionine	1.2	% protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Methionine	1.5	% protein	Feedipedia

Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Methionine	0.8	% protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Methionine	1.9	% protein	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Methionine	0.5	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Methionine	0.8	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Methionine	0.2	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Methionine	1.4	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Methionine	1	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Methionine	1.4	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Methionine	0.9	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Methionine	1.9	% protein	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Methionine	2.4	% protein	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Methionine	1.5	% protein	Feedipedia

Potato	Sweet potato, aerial part	Fresh	Proximates	Methionine	1.1	% protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Methionine	1.4	% protein	Feedipedia
Potato	Sweet potato leaf protein concentrate		Proximates	Methionine	1.9	% protein	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Methionine	0.7	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Methionine	1.2	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Methionine	1.4	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Methionine	0.3	% protein	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Methionine	0.3	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Methionine	1.6	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Methionine	0.4	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Methionine	0.1	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Methionine	0.7	% protein	Feedipedia

Pork	Hog hair meal	Hydrolysed	Proximates	Methionine	0.9	% protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Methionine	1.2	% protein	Feedipedia
Animal by-products, unspecified	Blood meal	Chicken	Proximates	Methionine	2	% protein	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Methionine	0.7	% protein	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Methionine	2.8	% protein	Feedipedia
Eggs	Eggshells		Proximates	Methionine	2.5	% protein	Feedipedia
Poultry	Feather meal		Proximates	Methionine	0.7	% protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Methionine	2.8	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Methionine	2.7	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Methionine	2.6	% protein	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Methionine	2.9	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Methionine	2.7	% protein	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Methionine	1.5	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Methionine	4.6	% protein	Feedipedia

Poultry	Hatchery by product		Proximates	Methionine	2.2	% protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Methionine	2.2	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Methionine	0.8	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Methionine	1.3	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Methionine	2.2	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Methionine	2.2	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Poultry	Proximates	Methionine	2.3	% protein	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Methionine	1	% protein	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Methionine	0.9	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Methionine	1.3	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Methionine	1.4	% protein	Feedipedia

Poultry	Offal meal	Poultry	Proximates	Methionine	1.4	% protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Methionine	1	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Methionine	2.5	% protein	Feedipedia
Shrimp	Shrimp waste	Ensiled, fresh	Proximates	Methionine	2.6	% protein	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Methionine	3	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Methionine	1.6	% protein	Feedipedia
Snail	Snail meal	Without shells	Proximates	Methionine	1.7	% protein	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Methionine	1.7	% protein	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Methionine	2.1	% protein	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Methionine	3.1	% protein	Feedipedia
Whale	Whale meal		Proximates	Methionine	1.7	% protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Methionine	1.4	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Methionine	1	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Methionine	1.5	% protein	Feedipedia

Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Methionine	2.2	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Methionine	1.9	% protein	Feedipedia
Hop	Hops		Proximates	Methionine	0	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Methionine	0	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Methionine	0.53	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Methionine	0.85	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Methionine	0.17	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Methionine	0.65	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Methionine	0.07	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Methionine	0.64	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Methionine	0.14	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Methionine	0.05	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Methionine	0	mg/g DM	NOSHAN

Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Methionine	5	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Methionine	6.88	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Methionine	6.03	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Methionine	3.75	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Methionine	3.19	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Methionine	4.97	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Methionine	5.31	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Methionine	2.8	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Methionine	5.54	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Tilapia	Tilapia residue silage	Acid	Proximates	Methionine	5.37	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Methionine	71.15	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Methionine	77.95	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Methionine	1.5	g/16g N	Feedipedia
Grape	Grape pomace		Undesirable components	Metrafenon	0.032	mg/kg	NOSHAN

Barley	Malted barley germs		Inorganics	Mineral matter, total	7.8	g/100g	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Mineral matter, total	4.55	g/100g	NOSHAN
Hop	Hops		Inorganics	Mineral matter, total	8.79	g/100g	NOSHAN
Potato	Potato	Selected	Inorganics	Mineral matter, total	3.12	g/100g	NOSHAN
Potato	Potato skin		Inorganics	Mineral matter, total	51	g/100g	NOSHAN
Barley	Malted barley germs		Inorganics	Minerals, hydrochloric acid-insoluble	2.63	g/100g	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Minerals, hydrochloric acid-insoluble	1.72	g/100g	NOSHAN
Hop	Hops		Inorganics	Minerals, hydrochloric acid-insoluble	1.28	g/100g	NOSHAN
Aubergine	Aubergine plant		Proximates	Moisture	83.64	%	ECN Phyllis 2

Babassu	Babassu cake		Proximates	Moisture	10.09	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Canola	Canola cake		Proximates	Moisture	8.02	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Castor	Castor seed cake		Proximates	Moisture	8.79	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Sunflower	Sunflower cake		Proximates	Moisture	5.56	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Apple	Apple pomace	Wet	Proximates	Moisture	72.3-78.9	%	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Dried	Proximates	Moisture	10.4-11.8	%	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Powder	Proximates	Moisture	3.97	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Proximates	Moisture	4.48	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Proximates	Moisture	4.4	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Proximates	Moisture	3.67	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Pectin	Wet, apple pulp	Proximates	Moisture	83.3	%	Handbook of poultry feed from waste: processing and use
Rice	Rice bran		Proximates	Moisture	9.3-11.4	%	Bio-processing of agro-byproducts to animal feed
Rice	Rice hull		Proximates	Moisture	6.7-9.7	%	Bio-processing of agro-byproducts to animal feed
Wheat	Wheat bran		Proximates	Moisture	9.8	%	Bio-processing of agro-byproducts to animal feed
Grape	Grape pomace	Untreated	Proximates	Moisture	59.5	%	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Banana	Banana		Proximates	Moisture	8.57	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sunflower	Sunflower extracted bagasse		Proximates	Moisture	5	%	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Coconut	Coconut cake		Proximates	Moisture	10	%	Bio-processing of agro-byproducts to animal feed
Sugar by-products, unspecified	Molasses		Proximates	Moisture	24.5	%	Bio-processing of agro-byproducts to animal feed
Pineapple	Pineapple waste		Proximates	Moisture	6.8	%	Bio-processing of agro-byproducts to animal feed

Rice	Rice husk		Proximates	Moisture	9.4	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Olive	Olive husk		Proximates	Moisture	12.2	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Proximates	Moisture	7.6	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Proximates	Moisture	9.5	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura

Olive	Olive mill wastewater		Proximates	Moisture	11.3	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Grape	Grape waste		Proximates	Moisture	11.45	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Poultry	Pyrolysis char from skimmings poultry processing	600°C pyrolysis	Proximates	Moisture	3.78	%	ECN Phyllis 2

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Proximates	Moisture	3.3	%	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Proximates	Moisture	2.8	%	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Proximates	Moisture	3.2	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 400/60/0. Combustion temperature: 400°C, 60 minutes, 0% oxygen	Proximates	Moisture	2.9	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Proximates	Moisture	2.5	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Proximates	Moisture	2.5	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Proximates	Moisture	4.5	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Proximates	Moisture	4.5	%	ECN Phyllis 2
Olive	Char from olive husks		Proximates	Moisture	0	%	ECN Phyllis 2
Apricot	Apricot stones	Apricot stones as waste product of canning industry, Bulgaria	Proximates	Moisture	6.4	%	ECN Phyllis 2
Chicory	Chicory root	Pulp, Chichorium intybus, Chinese cultivar 'Zhong-Hua No.1'	Proximates	Moisture	8.5	%	Sequential extraction and physicochemical characterization of polysaccharides from chicory (Chichorium intybus) root pulp

Apple	Apple pomace, dried		Proximates	Moisture	3.9-5.4	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Potato	Potato peel		Proximates	Moisture	60-70	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Tomatoes	Tomato pomace		Proximates	Moisture	84.7	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Tomatoes	Tomato pomace	Pulper stage of tomato processing for paste	Proximates	Moisture	746.48	g/kg	Chemical characterizatio n of tomato pomace
Tomatoes	Tomato pomace	Finisher stage of tomato processing for paste	Proximates	Moisture	827.11	g/kg	Chemical characterizatio n of tomato pomace

Tomatoes	Tomato pomace	Before turbopress stage of tomato processing for paste	Proximates	Moisture	763.03	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	After turbopress stage of tomato processing for paste	Proximates	Moisture	750.55	g/kg	Chemical characterization of tomato pomace
Sponge gourd	Sponge gourd fibers		Proximates	Moisture	4.79	%	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Potato	Potato peel	Mature potato peel - potatoes harvested after 20 weeks	Proximates	Moisture	8.01	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato

Potato	Potato peel	Young potato peel - potatoes harvested after 14 weeks	Proximates	Moisture	8.14	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Proximates	Moisture	4.64	%	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Proximates	Moisture	5.38	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rape	Rape straw	490 fully ripe rape straw samples collected in China	Proximates	Moisture	5.35	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Proximates	Moisture	4.65	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Molybdenium	2	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Molybdenium	2	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Molybdenium	0.8	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Molybdenium	7.6	mg/kg DM	ECN Phyllis 2
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Molybdenium	0.11	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations

Poultry	Hatchery waste		Inorganics	Molybdenum	<0.5	mg/kg	Composition of Australian meat chicken hatchery waste
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Molybdenum	0.5	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Molybdenum	1.5	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Molybdenum	1.4	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Inorganics	Molybdenum	2.7	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Inorganics	Molybdenum	3.1	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Inorganics	Molybdenum	0.5	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO

Apple	Apple pomace	Malus domestica	Inorganics	Molybdenum	0.7	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Molybdenum	1.8	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Inorganics	Molybdenum	3.3	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Inorganics	Molybdenum	2.5	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Inorganics	Molybdenum	0.8	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Inorganics	Molybdenum	2.4	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Molybdenum	2.5	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Molybdenum	2.8	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Molybdenum	0.34	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Molybdenum	1.78	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Citrus, unspecified	Citrus pulp, dried		Inorganics	Molybdenum	0.9	mg/kg DM	Citrus by-products as ruminant feeds: A review
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Molybdenum	4	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Molybdenum	1.3	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Molybdenum	0.2	mg/kg DM	ECN Phyllis 2
Apple	Apple pomace		Inorganics	Molybdenum	0.26	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Molybdenum	0.11	ppm d.b.	NOSHAN

Cheese	Whey	Milk	Inorganics	Molybdenum	0.57	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Molybdenum	0.22	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Molybdenum	0.16	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Molybdenum	2.31	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Molybdenum	3.1	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Molybdenum	0.91	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Molybdenum	0.16	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Molybdenum	0.19	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Molybdenum	0.08	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Molybdenum	0.44	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Molybdenum	2.53	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Molybdenum	<0.1	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Molybdenum	0.2	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Molybdenum	0.73	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Molybdenum	1.53	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Molybdenum	0.35	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Molybdenum	0.32	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Molybdenum	1.67	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Molybdenum	0.74	ppm d.b.	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Inorganics	Molybdenum	0.43	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Molybdenum	0.6	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Molybdenum	0.26	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Molybdenum	<0.01	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Molybdenum	0.36	ppm d.b.	NOSHAN
Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Inorganics	Molybdenum	0.33	mg/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK
Food, unspecified	Food leftovers	Source segregated domestic food waste in Luton, UK	Inorganics	Molybdenum	0.26	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Hackney, UK	Inorganics	Molybdenum	0.31	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Source segregated domestic food waste in Ludlow, UK	Inorganics	Molybdenum	0.11	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Eastleigh, UK	Inorganics	Molybdenum	0.76	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Molybdenum	0.05	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Molybdenum	0.29	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Molybdenum	0.17	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Molybdenum	0.21	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Monounsaturated fatty acids	Tr	g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Monounsaturated fatty acids	22.9	g/100g fat	NOSHAN
Barley	Malted barley germs		Proximates	Monounsaturated fatty acids	56.8	g/100g fat	NOSHAN
Barley	Malted barley germs		Proximates	Monounsaturated fatty acids	16.58	g/100g fat	NOSHAN
Olive	Olive pomace		Proximates	Monounsaturated fatty acids	76.27	g/100g fat	NOSHAN
Rape	Rapeseed press cake		Proximates	Monounsaturated fatty acids	63.69	g/100g fat	NOSHAN

Apple	Apple pomace		Waste compounds	Moulds	2.78	log CFU/g	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace
Grape	Grape pomace		Waste compounds	Moulds	<2.0	log CFU/g	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace

Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Undesirable components	Moulds and yeast mixture after 1 hour exposure to air	0.6	log CFU/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Undesirable components	Moulds and yeast mixture after 1 hour exposure to air	ND	log CFU/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Undesirable components	Moulds and yeast mixture after 1 hour exposure to air	ND	log CFU/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Undesirable components	Moulds and yeast mixture after 5 days of incubation	2.71	log CFU/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Undesirable components	Moulds and yeast mixture after 5 days of incubation	ND	log CFU/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Undesirable components	Moulds and yeast mixture after 5 days of incubation	ND	log CFU/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Apple	Apple pomace		Undesirable components	Moulds, total	360000	cfu/25g	NOSHAN
Orange	Orange peel	Orange	Undesirable components	Moulds, total	0	cfu/25g	NOSHAN
Cheese	Whey	Milk	Undesirable components	Moulds, total	89000000	cfu/25g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Moulds, total	3600	cfu/25g	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Moulds, total	1700000	cfu/25g	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Moulds, total	41000000	cfu/25g	NOSHAN
Grape	Grape pomace		Undesirable components	Moulds, total	310000	cfu/25g	NOSHAN
Barley	Malted barley germs		Undesirable components	Moulds, total	5000	cfu/25g	NOSHAN
Mushrooms	Mushrooms		Undesirable components	Moulds, total	0	cfu/25g	NOSHAN
Olive	Olive pomace		Undesirable components	Moulds, total	0	cfu/25g	NOSHAN
Onion	Onion	Slices, fresh	Undesirable components	Moulds, total	6000000	cfu/25g	NOSHAN
Rape	Rapeseed press cake		Undesirable components	Moulds, total	150	cfu/25g	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	Moulds, total	0	cfu/25g	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Undesirable components	Moulds, total	<100	cfu/25g	NOSHAN
Tomatoes	Tomato skin		Undesirable components	Moulds, total	0	cfu/25g	NOSHAN
Pears	Pear	Whole	Undesirable components	Moulds, total	175000	cfu/25g	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Moulds, total	340000	cfu/25g	NOSHAN
Orange	Orange peel	Orange	Waste compounds	Myrcen	1.46	% in 0.6ml/100g	NOSHAN
Lemon	Lemon peel	Selinunte	Waste compounds	Myrcene	11.55	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Akragas	Waste compounds	Myrcene	13.80	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femminello S	Waste compounds	Myrcene	14.67	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Continella m 84	Waste compounds	Myrcene	10.69	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Siracusano 2KR	Waste compounds	Myrcene	14.70	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femm, Cerza	Waste compounds	Myrcene	15.91	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Iniasel 95	Waste compounds	Myrcene	16.50	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Fetnm. Fior d'Arancio m 79	Waste compounds	Myrcene	16.00	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femm. Scandurca	Waste compounds	Myrcene	12.48	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Sfusato Amalfitano	Waste compounds	Myrcene	19.17	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Kamahna	Waste compounds	Myrcene	12.07	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Segesta	Waste compounds	Myrcene	24.94	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Siracusano m 296	Waste compounds	Myrcene	17.05	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Siracusano m 296	Waste compounds	Myrcene	19.08	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Ovale di Sorrento	Waste compounds	Myrcene	16.87	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Ericc	Waste compounds	Myrcene	20.25	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Dosaco	Waste compounds	Myrcene	18.70	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femminello Adamo	Waste compounds	Myrcene	22.99	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Grape	Grape pomace, dried	Air dried	Flavonols	Myricetin	622	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Flavonols	Myricetin	452	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Flavonols	Myricetin	711	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Air dried	Flavonols	Myricetin-3-glucoside	1044	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Flavonols	Myricetin-3-glucoside	781	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Flavonols	Myricetin-3-glucoside	1150	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Flavanols	N/A	56.4	-	eBASIS - average of available values

Rape	Rapeseed	Untreated	Waste compounds	Neoglucobrassicin	0.1	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed press cake	Untreated	Waste compounds	Neoglucobrassicin	0.1	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed press cake	Soaked and dried	Waste compounds	Neoglucobrassicin	<0.1	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Sugar beet	Sugar beet leaves	Beta vulgaris	Waste compounds	Net gas production	130.6	ml/24h/g DM	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Waste compounds	Net gas production	195.1	ml/24h/g DM	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Waste compounds	Net gas production	209.3	ml/24h/g DM	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace		Proximates	Neutral Detergent Fibre	48.28	% d.b.	Apple pomace as a supplement to pasture for dairy cows in late lactation

Apple	Apple pomace, dried	Dried	Proximates	Neutral Detergent Fibre	38	% d.b.	2012FeedComp
Apple	Apple pomace	Malus domestica	Proximates	Neutral Detergent Fibre	52.5	% d.b.	Fruit waste as feed paper
Citrus, unspecified	Citrus pulp, dried		Proximates	Neutral Detergent Fibre	21	% DM	2012FeedComp
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Neutral Detergent Fibre	26.5	% d.b.	Utilization of fruit and vegetable wastes, FAO
Cranberry	Cranberry pulp meal		Proximates	Neutral Detergent Fibre	54	% d.b.	2012FeedComp
Orange	Orange pulp, dried		Proximates	Neutral Detergent Fibre	20	% DM	2012FeedComp
Citrus, unspecified	Citrus molasses		Proximates	Neutral Detergent Fibre	0	% DM	2012FeedComp
Citrus, unspecified	Citrus pulp		Proximates	Neutral Detergent Fibre	22.1	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Tomatoes	Tomato pomace, dried	Dried	Proximates	Neutral Detergent Fibre	55	% d.b.	2012FeedComp
Tomatoes	Tomato pomace	Solanum lucopersicum	Proximates	Neutral Detergent Fibre	55.2-63.0	% d.b.	Vegetable waste as animal feed paper
Rice	Rice hull		Proximates	Neutral Detergent Fibre	81	% d.b.	2012FeedComp
Rice	Rice mill byproduct		Proximates	Neutral Detergent Fibre	60	% d.b.	2012FeedComp
Wheat	Wheat middlings		Proximates	Neutral Detergent Fibre	42.3	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Wheat	Wheat	Ground	Proximates	Neutral Detergent Fibre	12.1	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Poultry	Feather meal	Hydrolyzed	Proximates	Neutral Detergent Fibre	42	% d.b.	2012FeedComp

Sugar beet	Sugar beet pulp	Beta vulgaris	Proximates	Neutral Detergent Fibre	45.8	% d.b.	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet pulp		Proximates	Neutral Detergent Fibre	44.6	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Neutral Detergent Fibre	42.3	% d.b.	Utilization of fruit and vegetable wastes, FAO
Sunflower	Sunflower oil cake	By-product. Helianthus annuus (seed)	Proximates	Neutral Detergent Fibre	34.7	% d.b.	Cropgen database
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Neutral Detergent Fibre	45	% d.b.	2012FeedComp
Grape	Grape pomace	Stemless	Proximates	Neutral Detergent Fibre	54	% d.b.	2012FeedComp
Grape	Grape pomace/marc	Namily vitaceae	Proximates	Neutral Detergent Fibre	51.5-62.9	% d.b.	Fruit waste as feed paper
Grape	Grape vine shoot	Vitis vinifera	Proximates	Neutral Detergent Fibre	74.1	% d.b.	Fruit waste as feed paper

Distillers grain	Distillers grain	Wet	Proximates	Neutral Detergent Fibre	40	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Proximates	Neutral Detergent Fibre	43	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Proximates	Neutral Detergent Fibre	42	% d.b.	2012FeedComp
Distillers grain	Distillers, corn	FL 4/99	Proximates	Neutral Detergent Fibre	58.2	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Distillers grain	Distillers, corn	Fl 5/99	Proximates	Neutral Detergent Fibre	54.4	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Sunflower	Sunflower oil cake		Proximates	Neutral Detergent Fibre	48.4	% d.b.	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake
Nuts, unspecified	Nut hulls	Almond	Proximates	Neutral Detergent Fibre	36	% d.b.	2012FeedComp
Apple	Apple		Proximates	Neutral Detergent Fibre	25	% DM	2012FeedComp
Apple	Apple pomace	Wet	Proximates	Neutral Detergent Fibre	36	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Proximates	Neutral Detergent Fibre	45	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Proximates	Neutral Detergent Fibre	46	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Proximates	Neutral Detergent Fibre	39	% d.b.	2012FeedComp

Sugar beet	Sugar beet pulp, dried	Dried with molasses	Proximates	Neutral Detergent Fibre	40	% d.b.	2012FeedComp
Sugar beet	Sugar beet root		Proximates	Neutral Detergent Fibre	16	% d.b.	2012FeedComp
Sugar beet	Sugar beet tops		Proximates	Neutral Detergent Fibre	25	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Proximates	Neutral Detergent Fibre	10	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Proximates	Neutral Detergent Fibre	0	% d.b.	2012FeedComp
Bread	Bread by product		Proximates	Neutral Detergent Fibre	3	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	Neutral Detergent Fibre	49	% d.b.	2012FeedComp
Butter	Buttermilk, dried		Proximates	Neutral Detergent Fibre	0	% d.b.	2012FeedComp
Bread	Calcium carbonate		Proximates	Neutral Detergent Fibre	0	% d.b.	2012FeedComp

Carrot	Carrot pulp		Proximates	Neutral Detergent Fibre	40	% d.b.	2012FeedComp
Carrot	Carrot	Roots, fresh	Proximates	Neutral Detergent Fibre	20	% d.b.	2012FeedComp
Carrot	Carrot tops		Proximates	Neutral Detergent Fibre	45	% d.b.	2012FeedComp
Beef	Cattle manure, dried	Dried	Proximates	Neutral Detergent Fibre	55	% d.b.	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Proximates	Neutral Detergent Fibre	56	% d.b.	2012FeedComp
Coffee	Coffee grounds		Proximates	Neutral Detergent Fibre	77	% d.b.	2012FeedComp
Cotton	Cottonseed hulls		Proximates	Neutral Detergent Fibre	87	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Proximates	Neutral Detergent Fibre	25	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Proximates	Neutral Detergent Fibre	31	% d.b.	2012FeedComp

Crambe	Crambe meal	Solv. Ext.	Proximates	Neutral Detergent Fibre	47	% d.b.	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Proximates	Neutral Detergent Fibre	42	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Barley	Proximates	Neutral Detergent Fibre	44	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Proximates	Neutral Detergent Fibre	39	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Proximates	Neutral Detergent Fibre	39	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Proximates	Neutral Detergent Fibre	38	% d.b.	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Proximates	Neutral Detergent Fibre	22	% d.b.	2012FeedComp
Distillers grain	Distillers corn stillage		Proximates	Neutral Detergent Fibre	21	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Proximates	Neutral Detergent Fibre	44	% d.b.	2012FeedComp

Fish, unspecified	Fish meal		Proximates	Neutral Detergent Fibre	12	% d.b.	2012FeedComp
Flax/linseed	Flax seed hulls		Proximates	Neutral Detergent Fibre	50	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Proximates	Neutral Detergent Fibre	25	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Proximates	Neutral Detergent Fibre	24	% d.b.	2012FeedComp
Poultry	Meat meal	Swine/poultry	Proximates	Neutral Detergent Fibre	48	% d.b.	2012FeedComp
Sugar beet	Sugar beet molasses		Proximates	Neutral Detergent Fibre	0	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses		Proximates	Neutral Detergent Fibre	0	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Proximates	Neutral Detergent Fibre	7	% d.b.	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Proximates	Neutral Detergent Fibre	0	% d.b.	2012FeedComp

Nuts, unspecified	Nut hulls	Peanut	Proximates	Neutral Detergent Fibre	74	% d.b.	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Proximates	Neutral Detergent Fibre	27	% d.b.	2012FeedComp
Nuts, unspecified	Nut skins	Peanut	Proximates	Neutral Detergent Fibre	28	% d.b.	2012FeedComp
Pineapple	Pineapple greenchop		Proximates	Neutral Detergent Fibre	64	% d.b.	2012FeedComp
Pineapple	Pineapple bran		Proximates	Neutral Detergent Fibre	66	% d.b.	2012FeedComp
Pineapple	Pineapple presscake		Proximates	Neutral Detergent Fibre	69	% d.b.	2012FeedComp
Potato	Potato	Cull	Proximates	Neutral Detergent Fibre	4	% d.b.	2012FeedComp
Potato	Potato waste	Wet	Proximates	Neutral Detergent Fibre	18	% d.b.	2012FeedComp
Potato	Potato waste, dried	Dried	Proximates	Neutral Detergent Fibre	15	% d.b.	2012FeedComp

Potato	Potato waste	Wet with lime	Proximates	Neutral Detergent Fibre	16	% d.b.	2012FeedComp
Poultry	Poultry manure, dried	Dried	Proximates	Neutral Detergent Fibre	35	% d.b.	2012FeedComp
Rice	Rice straw		Proximates	Neutral Detergent Fibre	72	% d.b.	2012FeedComp
Rice	Rice straw	Ammoniated	Proximates	Neutral Detergent Fibre	68	% d.b.	2012FeedComp
Rice	Rice grain		Proximates	Neutral Detergent Fibre	16	% d.b.	2012FeedComp
Rice	Rice bran		Proximates	Neutral Detergent Fibre	24	% d.b.	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Proximates	Neutral Detergent Fibre	57	% d.b.	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Proximates	Neutral Detergent Fibre	27	% d.b.	2012FeedComp
Safflower	Safflower hulls		Proximates	Neutral Detergent Fibre	90	% d.b.	2012FeedComp

Sunflower	Sunflower meal	Solv. Ext.	Proximates	Neutral Detergent Fibre	36	% d.b.	2012FeedComp
Sunflower	Sunflower meal	With hulls	Proximates	Neutral Detergent Fibre	44	% d.b.	2012FeedComp
Sunflower	Sunflower seed hulls		Proximates	Neutral Detergent Fibre	73	% d.b.	2012FeedComp
Sugar cane	Sugar cane bagasse		Proximates	Neutral Detergent Fibre	86	% d.b.	2012FeedComp
Wheat	Wheat	Fresh, pasture	Proximates	Neutral Detergent Fibre	50	% d.b.	2012FeedComp
Wheat	Wheat hay		Proximates	Neutral Detergent Fibre	66	% d.b.	2012FeedComp
Wheat	Wheat silage		Proximates	Neutral Detergent Fibre	62	% d.b.	2012FeedComp
Wheat	Wheat straw		Proximates	Neutral Detergent Fibre	81	% d.b.	2012FeedComp
Wheat	Wheat straw	Ammoniated	Proximates	Neutral Detergent Fibre	76	% d.b.	2012FeedComp

Wheat	Wheat grain		Proximates	Neutral Detergent Fibre	12	% d.b.	2012FeedComp
Wheat	Wheat grain	Hard	Proximates	Neutral Detergent Fibre	14	% d.b.	2012FeedComp
Wheat	Wheat grain	Soft	Proximates	Neutral Detergent Fibre	12	% d.b.	2012FeedComp
Wheat	Wheat grain	Steam flaked	Proximates	Neutral Detergent Fibre	12	% d.b.	2012FeedComp
Wheat	Wheat grain	Sprouted	Proximates	Neutral Detergent Fibre	13	% d.b.	2012FeedComp
Wheat	Wheat bran		Proximates	Neutral Detergent Fibre	46	% d.b.	2012FeedComp
Wheat	Wheat middlings		Proximates	Neutral Detergent Fibre	36	% d.b.	2012FeedComp
Wheat	Wheat mill run		Proximates	Neutral Detergent Fibre	37	% d.b.	2012FeedComp
Wheat	Wheat shorts		Proximates	Neutral Detergent Fibre	30	% d.b.	2012FeedComp

Cheese	Whey, dried	Dried	Proximates	Neutral Detergent Fibre	0	% d.b.	2012FeedComp
Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Proximates	Neutral Detergent Fibre	34.7	% d.b.	Cropgen database
Nuts, unspecified	Nut hulls	Almond, WH	Proximates	Neutral Detergent Fibre	26	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Cotton	Cottonseed	Whole, FL 5/99	Proximates	Neutral Detergent Fibre	47.6	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Neutral Detergent Fibre	33.7	% d.b.	Utilization of fruit and vegetable wastes, FAO

Carrot	Carrot	Daucus carota	Proximates	Neutral Detergent Fibre	9	% d.b.	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Neutral Detergent Fibre	26.5	% d.b.	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Proximates	Neutral Detergent Fibre	52.5	% d.b.	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Proximates	Neutral Detergent Fibre	51.5-58	% d.b.	Utilization of fruit and vegetable wastes, FAO
Pineapple	Pineapple bran	Ananas comosus	Proximates	Neutral Detergent Fibre	73	% d.b.	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Neutral Detergent Fibre	63	% d.b.	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Neutral Detergent Fibre	35.8	% d.b.	Utilization of fruit and vegetable wastes, FAO

Melon	Muskmelon, peels	Cucumis melo	Proximates	Neutral Detergent Fibre	59.3	% d.b.	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Neutral Detergent Fibre	33.8	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Neutral Detergent Fibre	24	% d.b.	Utilization of fruit and vegetable wastes, FAO
Pineapple	Pineapple waste	Raw	Proximates	Neutral Detergent Fibre	60-72	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Proximates	Neutral Detergent Fibre	9	% d.b.	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Proximates	Neutral Detergent Fibre	24	% d.b.	Vegetable waste as animal feed paper
Cucumber	Cucumber	Cucumis sativus	Proximates	Neutral Detergent Fibre	16.8	% d.b.	Vegetable waste as animal feed paper

Cucumber	Cucumber peel	Cucumis sativus	Proximates	Neutral Detergent Fibre	37	% d.b.	Vegetable waste as animal feed paper
Food, unspecified	Grocery by-product waste	Fruits, vegetables and bakery items from retail grocery stores	Proximates	Neutral Detergent Fibre	14.2	% d.b.	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Proximates	Neutral Detergent Fibre	25.6	% d.b.	Vegetable waste as animal feed paper
Potato	Potato vines	Solanum tuberosum	Proximates	Neutral Detergent Fibre	28.6-35.9	% d.b.	Vegetable waste as animal feed paper
Tomatoes	Tomato	L.esculentum	Proximates	Neutral Detergent Fibre	19.1-26	% d.b.	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Neutral Detergent Fibre	55.2-63	% d.b.	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Proximates	Neutral Detergent Fibre	33.7	% d.b.	Vegetable waste as animal feed paper

Cauliflower	Cauliflower leaves	Brassica oleracea	Proximates	Neutral Detergent Fibre	27.5	% d.b.	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Neutral Detergent Fibre	42.3	% d.b.	Vegetable waste as animal feed paper
Bakery	Bakery product, dried	Dried	Proximates	Neutral Detergent Fibre	30	% d.b.	2012FeedComp
Canola	Canola meal	Solv. Ext.	Proximates	Neutral Detergent Fibre	29	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole	Proximates	Neutral Detergent Fibre	47	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Proximates	Neutral Detergent Fibre	40	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Proximates	Neutral Detergent Fibre	53	% d.b.	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Proximates	Neutral Detergent Fibre	34	% d.b.	2012FeedComp
Milk	Milk, dried	Dry, skim	Proximates	Neutral Detergent Fibre	0	% d.b.	2012FeedComp

Sugar beet	Sugar beet pulp		Proximates	Neutral Detergent Fibre	42.18	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Neutral Detergent Fibre	3.758	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Neutral Detergent Fibre	33.22	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Rice	Rice bran		Proximates	Neutral Detergent Fibre	20.12	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Neutral Detergent Fibre	21.54	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Neutral Detergent Fibre	21.49	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Almond	Almond hulls		Proximates	Neutral Detergent Fibre	34.98	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Neutral Detergent Fibre	31.88	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Neutral Detergent Fibre	35.39	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Citrus, unspecified	Citrus pulp		Proximates	Neutral Detergent Fibre	18.98	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Neutral Detergent Fibre	14.86	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Neutral Detergent Fibre	22.43	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Bakery	Bakery waste		Proximates	Neutral Detergent Fibre	17.89	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Neutral Detergent Fibre	15.27	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Neutral Detergent Fibre	7.52	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Wheat	Wheat mill run		Proximates	Neutral Detergent Fibre	38.54	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Neutral Detergent Fibre	44.05	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Neutral Detergent Fibre	29.91	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Neutral Detergent Fibre	54.95	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Neutral Detergent Fibre	38.72	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Neutral Detergent Fibre	51.36	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Distillers grain	Distillers grain		Proximates	Neutral Detergent Fibre	36.29	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Neutral Detergent Fibre	38.87	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Neutral Detergent Fibre	42.53	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Rice	Rice straw		Proximates	Neutral Detergent Fibre	69.1	% d.b.	Feedipedia
Rice	Rice straw	Urea-treated	Proximates	Neutral Detergent Fibre	68.6	% d.b.	Feedipedia
Rice	Rice straw	Ammonia-treated	Proximates	Neutral Detergent Fibre	67.5	% d.b.	Feedipedia
Rice	Rice straw	NaOH-treated	Proximates	Neutral Detergent Fibre	63.4	% d.b.	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Neutral Detergent Fibre	50.2	% d.b.	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Neutral Detergent Fibre	42.5	% d.b.	Feedipedia
Sugar cane	Sugar cane leaves	Fresh	Proximates	Neutral Detergent Fibre	71.7	% d.b.	Feedipedia
Sugar cane	Sugar cane leaves, dried	Dry	Proximates	Neutral Detergent Fibre	75.4	% d.b.	Feedipedia
Wheat	Triticale grain		Proximates	Neutral Detergent Fibre	14.6	% d.b.	Feedipedia

Wheat	Triticale aerial part	Fresh	Proximates	Neutral Detergent Fibre	49.8	% d.b.	Feedipedia
Wheat	Triticale straw		Proximates	Neutral Detergent Fibre	75.1	% d.b.	Feedipedia
Wheat	Wheat hay		Proximates	Neutral Detergent Fibre	54.2	% d.b.	Feedipedia
Wheat	Wheat straw		Proximates	Neutral Detergent Fibre	77.5	% d.b.	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Neutral Detergent Fibre	56.4	% d.b.	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Neutral Detergent Fibre	70.4	% d.b.	Feedipedia
Palm	Oil palm fronds, dried	Dried, Elaeis guineensis	Proximates	Neutral Detergent Fibre	87.9	% d.b.	Feedipedia
Palm	Oil palm fronds	Silage	Proximates	Neutral Detergent Fibre	69.2	% d.b.	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Neutral Detergent Fibre	57.8	% d.b.	Feedipedia

Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Neutral Detergent Fibre	65.1	% d.b.	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Neutral Detergent Fibre	39.7	% d.b.	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Neutral Detergent Fibre	60.1	% d.b.	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Neutral Detergent Fibre	0.6	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Neutral Detergent Fibre	56.3	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Neutral Detergent Fibre	49.6	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Neutral Detergent Fibre	57.5	% d.b.	Feedipedia
Rice	Rice grain	Polished	Proximates	Neutral Detergent Fibre	15.6	% d.b.	Feedipedia
Rice	Rice grain	Brown	Proximates	Neutral Detergent Fibre	3.1	% d.b.	Feedipedia

Barley	Barley rootlets	Dehydrated	Proximates	Neutral Detergent Fibre	45.2	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Neutral Detergent Fibre	34.2	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Neutral Detergent Fibre	28.8	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Neutral Detergent Fibre	39.8	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Neutral Detergent Fibre	39	% d.b.	Feedipedia
Distillery by-products, unspecified	Thin stillage		Proximates	Neutral Detergent Fibre	12.5	% d.b.	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Neutral Detergent Fibre	12.4	% d.b.	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Neutral Detergent Fibre	25.2	% d.b.	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Neutral Detergent Fibre	34.4	% d.b.	Feedipedia

Rice	Rice bran	Fibre >20%	Proximates	Neutral Detergent Fibre	48.7	% d.b.	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Neutral Detergent Fibre	26.6	% d.b.	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Neutral Detergent Fibre	32.6	% d.b.	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Neutral Detergent Fibre	51.7	% d.b.	Feedipedia
Rice	Rice hull		Proximates	Neutral Detergent Fibre	67.8	% d.b.	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Neutral Detergent Fibre	21.5	% d.b.	Feedipedia
Sorghum	Sorghum bran and milling offal		Proximates	Neutral Detergent Fibre	42.9	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Neutral Detergent Fibre	40	% d.b.	Feedipedia
Distillers grain	Distillers grain	Fresh, Sorghum, with or without solubles	Proximates	Neutral Detergent Fibre	35.6	% d.b.	Feedipedia

Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Neutral Detergent Fibre	38.5	% d.b.	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Neutral Detergent Fibre	11	% d.b.	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Neutral Detergent Fibre	12.2	% d.b.	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Neutral Detergent Fibre	9.6	% d.b.	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Neutral Detergent Fibre	10	% d.b.	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Neutral Detergent Fibre	9.6	% d.b.	Feedipedia
Wheat	Wheat starch		Proximates	Neutral Detergent Fibre	3.6	% d.b.	Feedipedia
Wheat	Wheat bran		Proximates	Neutral Detergent Fibre	45.2	% d.b.	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Neutral Detergent Fibre	34	% d.b.	Feedipedia

Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Neutral Detergent Fibre	27	% d.b.	Feedipedia
Wheat	Wheat germs		Proximates	Neutral Detergent Fibre	16.1	% d.b.	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Proximates	Neutral Detergent Fibre	32.6	% d.b.	Feedipedia
Wheat	Wheat grain		Proximates	Neutral Detergent Fibre	13.9	% d.b.	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Neutral Detergent Fibre	14.3	% d.b.	Feedipedia
Wheat	Wheat screenings		Proximates	Neutral Detergent Fibre	15.5	% d.b.	Feedipedia
Nuts, unspecified	Nut kernels	Almond	Proximates	Neutral Detergent Fibre	5	% d.b.	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Proximates	Neutral Detergent Fibre	19.8	% d.b.	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Proximates	Neutral Detergent Fibre	28.9	% d.b.	Feedipedia

Argan	Argan oil cake	Solvent-extracted, Argania spinosa	Proximates	Neutral Detergent Fibre	23.4	% d.b.	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Neutral Detergent Fibre	20.2	% d.b.	Feedipedia
Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Neutral Detergent Fibre	70.4	% d.b.	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Neutral Detergent Fibre	46.5	% d.b.	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Neutral Detergent Fibre	44	% d.b.	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Neutral Detergent Fibre	55.2	% d.b.	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Neutral Detergent Fibre	54.7	% d.b.	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Neutral Detergent Fibre	56.4	% d.b.	Feedipedia
Cotton	Cotton straw		Proximates	Neutral Detergent Fibre	77.2	% d.b.	Feedipedia

Cotton	Cottonseed hulls		Proximates	Neutral Detergent Fibre	85.3	% d.b.	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Neutral Detergent Fibre	27	% d.b.	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Neutral Detergent Fibre	23.7	% d.b.	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Neutral Detergent Fibre	33.5	% d.b.	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Neutral Detergent Fibre	36.6	% d.b.	Feedipedia
Flax/linseed	Flax straw		Proximates	Neutral Detergent Fibre	78.6	% d.b.	Feedipedia
Flax/linseed	Flax shives		Proximates	Neutral Detergent Fibre	82.9	% d.b.	Feedipedia
Flax/linseed	Flax, aerial part	Fresh	Proximates	Neutral Detergent Fibre	57	% d.b.	Feedipedia
Grape	Grape seeds		Proximates	Neutral Detergent Fibre	70.5	% d.b.	Feedipedia

Grape	Grape seed oil meal	Oil <5%	Proximates	Neutral Detergent Fibre	77.5	% d.b.	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Proximates	Neutral Detergent Fibre	64.4	% d.b.	Feedipedia
Flax/linseed	Linseed meal		Proximates	Neutral Detergent Fibre	25.4	% d.b.	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Neutral Detergent Fibre	27.4	% d.b.	Feedipedia
Flax/linseed	Linseeds		Proximates	Neutral Detergent Fibre	21.7	% d.b.	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Neutral Detergent Fibre	45	% d.b.	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Neutral Detergent Fibre	44	% d.b.	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Neutral Detergent Fibre	29.4	% d.b.	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Neutral Detergent Fibre	34.7	% d.b.	Feedipedia

Corn	Maize germ	Oil <30%	Proximates	Neutral Detergent Fibre	28.3	% d.b.	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Neutral Detergent Fibre	43.2	% d.b.	Feedipedia
Palm	Oil palm kernels		Proximates	Neutral Detergent Fibre	49.4	% d.b.	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Neutral Detergent Fibre	70.5	% d.b.	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Neutral Detergent Fibre	58.9	% d.b.	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Neutral Detergent Fibre	69.9	% d.b.	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Proximates	Neutral Detergent Fibre	55.8	% d.b.	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Neutral Detergent Fibre	48.9	% d.b.	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Neutral Detergent Fibre	50.5	% d.b.	Feedipedia

Olive	Olive oil vegetation water		Proximates	Neutral Detergent Fibre	0.5	% d.b.	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Neutral Detergent Fibre	73	% d.b.	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Neutral Detergent Fibre	73.2	% d.b.	Feedipedia
Palm	Palm oil mill effluent	Decanted	Proximates	Neutral Detergent Fibre	28.2	% d.b.	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Neutral Detergent Fibre	49.2	% d.b.	Feedipedia
Palm	Palm press fibre	High oil	Proximates	Neutral Detergent Fibre	66	% d.b.	Feedipedia
Palm	Palm press fibre	Low oil	Proximates	Neutral Detergent Fibre	84.4	% d.b.	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Neutral Detergent Fibre	51.8	% d.b.	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Neutral Detergent Fibre	35.2	% d.b.	Feedipedia

Nuts, unspecified	Nut hulls	Peanut	Proximates	Neutral Detergent Fibre	66.4	% d.b.	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Neutral Detergent Fibre	16.7	% d.b.	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Neutral Detergent Fibre	26.6	% d.b.	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Neutral Detergent Fibre	18.1	% d.b.	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Neutral Detergent Fibre	9.3	% d.b.	Feedipedia
Peanuts	Peanuts, with shells	With shells	Proximates	Neutral Detergent Fibre	37.1	% d.b.	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Neutral Detergent Fibre	41.4	% d.b.	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Neutral Detergent Fibre	34.1	% d.b.	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Neutral Detergent Fibre	43.6	% d.b.	Feedipedia

Pumpkin	Pumpkin	Fruits, dried, Cucurbita sp.	Proximates	Neutral Detergent Fibre	25.1	% d.b.	Feedipedia
Pumpkin	Pumpkin crop by-product	Fresh, Cucurbita sp.	Proximates	Neutral Detergent Fibre	27	% d.b.	Feedipedia
Rape	Rape forage	Fresh	Proximates	Neutral Detergent Fibre	21.9	% d.b.	Feedipedia
Rape	Rape straw		Proximates	Neutral Detergent Fibre	77	% d.b.	Feedipedia
Rape	Rapeseed hulls		Proximates	Neutral Detergent Fibre	53.3	% d.b.	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Neutral Detergent Fibre	31.1	% d.b.	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Neutral Detergent Fibre	29.9	% d.b.	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Neutral Detergent Fibre	29.2	% d.b.	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Neutral Detergent Fibre	20.4	% d.b.	Feedipedia

Sesame	Sesame meal	Mechanical extraction	Proximates	Neutral Detergent Fibre	24.6	% d.b.	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Neutral Detergent Fibre	45.5	% d.b.	Feedipedia
Sesame	Sesame seeds	Whole	Proximates	Neutral Detergent Fibre	14.8	% d.b.	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Neutral Detergent Fibre	48.1	% d.b.	Feedipedia
Soy	Soybean hay		Proximates	Neutral Detergent Fibre	47	% d.b.	Feedipedia
Soy	Soybean straw		Proximates	Neutral Detergent Fibre	79.7	% d.b.	Feedipedia
Soy	Soybean hulls		Proximates	Neutral Detergent Fibre	64.4	% d.b.	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Neutral Detergent Fibre	13.7	% d.b.	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Neutral Detergent Fibre	11	% d.b.	Feedipedia

Soy	Soybean meal	High oil (expeller)	Proximates	Neutral Detergent Fibre	11.1	% d.b.	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Neutral Detergent Fibre	13.2	% d.b.	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Neutral Detergent Fibre	9.1	% d.b.	Feedipedia
Soy	Soybeans	Toasted	Proximates	Neutral Detergent Fibre	13.6	% d.b.	Feedipedia
Soy	Soybeans	Extruded	Proximates	Neutral Detergent Fibre	13.1	% d.b.	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Neutral Detergent Fibre	39.6	% d.b.	Feedipedia
Sunflower	Sunflower forage	Silage	Proximates	Neutral Detergent Fibre	42.1	% d.b.	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Proximates	Neutral Detergent Fibre	66.9	% d.b.	Feedipedia
Sunflower	Sunflower heads	Without seeds	Proximates	Neutral Detergent Fibre	44.3	% d.b.	Feedipedia

Sunflower	Sunflower hulls		Proximates	Neutral Detergent Fibre	74.7	% d.b.	Feedipedia
Sunflower	Sunflower screenings		Proximates	Neutral Detergent Fibre	71.7	% d.b.	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Neutral Detergent Fibre	45	% d.b.	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Neutral Detergent Fibre	38.7	% d.b.	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Neutral Detergent Fibre	46.4	% d.b.	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Neutral Detergent Fibre	42.9	% d.b.	Feedipedia
Sunflower	Sunflower seeds		Proximates	Neutral Detergent Fibre	29.6	% d.b.	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Neutral Detergent Fibre	65.1	% d.b.	Feedipedia

Apple	Apple pomace	Fresh	Proximates	Neutral Detergent Fibre	45.1	% d.b.	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Neutral Detergent Fibre	10.5	% DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Neutral Detergent Fibre	16.2	% d.b.	Feedipedia
Banana	Banana fruits, ensiled	Mature, ensiled	Proximates	Neutral Detergent Fibre	17.7	% d.b.	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Neutral Detergent Fibre	10.6	% d.b.	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Proximates	Neutral Detergent Fibre	10.7	% d.b.	Feedipedia
Banana	Banana fruits, ensiled	Immature, ensiled	Proximates	Neutral Detergent Fibre	14.6	% d.b.	Feedipedia
Banana	Banana fruits, dried	Immature, without peel, dehydrated	Proximates	Neutral Detergent Fibre	6	% d.b.	Feedipedia
Banana	Banana leaves, dried	Dehydrated	Proximates	Neutral Detergent Fibre	55.7	% d.b.	Feedipedia

Banana	Banana stalks	Fresh	Proximates	Neutral Detergent Fibre	57.7	% d.b.	Feedipedia
Banana	Banana	Aerial part, fresh	Proximates	Neutral Detergent Fibre	55	% d.b.	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Proximates	Neutral Detergent Fibre	50	% d.b.	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Neutral Detergent Fibre	10.9	% d.b.	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Neutral Detergent Fibre	11.9	% DM	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Neutral Detergent Fibre	27.1	% d.b.	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Neutral Detergent Fibre	21.1	% DM	Feedipedia
Orange	Orange pulp, dried		Proximates	Neutral Detergent Fibre	20.6	% DM	Feedipedia
Orange	Orange pulp, dried	Mandarin	Proximates	Neutral Detergent Fibre	20.9	% DM	Feedipedia

Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Neutral Detergent Fibre	19.9	% d.b.	Feedipedia
Orange	Orange pulp	Orange, fresh	Proximates	Neutral Detergent Fibre	25.6	% d.b.	Feedipedia
Grapefruit	Grapefruit pulp	Grapefruit, fresh	Proximates	Neutral Detergent Fibre	18.2	% d.b.	Feedipedia
Orange	Orange pulp	Clementine, fresh	Proximates	Neutral Detergent Fibre	15.3	% d.b.	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Neutral Detergent Fibre	21.4	% d.b.	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Neutral Detergent Fibre	33.7	% DM	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Neutral Detergent Fibre	14.1	% d.b.	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Neutral Detergent Fibre	21.8	% d.b.	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Neutral Detergent Fibre	18.3	% d.b.	Feedipedia

Grapefruit	Grapefruit peel silage	Grapefruit	Proximates	Neutral Detergent Fibre	20.6	% d.b.	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Neutral Detergent Fibre	24.3	% d.b.	Feedipedia
Lime	Lime peel silage	Lime	Proximates	Neutral Detergent Fibre	28.2	% d.b.	Feedipedia
Coffee	Coffee hulls		Proximates	Neutral Detergent Fibre	61.8	% d.b.	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Neutral Detergent Fibre	49	% d.b.	Feedipedia
Coffee	Coffee parchment		Proximates	Neutral Detergent Fibre	83.6	% d.b.	Feedipedia
Coffee	Instant coffee by product		Proximates	Neutral Detergent Fibre	70.6	% d.b.	Feedipedia
Coffee	Coffee oil meal	By product of essential oil extraction	Proximates	Neutral Detergent Fibre	63.5	% d.b.	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Neutral Detergent Fibre	24.1	% d.b.	Feedipedia

Date	Date palm, pulp	Pulp, high ash, Phoenix dactylifera	Proximates	Neutral Detergent Fibre	40.7	% d.b.	Feedipedia
Date	Date palm leaves	Fresh	Proximates	Neutral Detergent Fibre	75.8	% d.b.	Feedipedia
Date	Date palm leaves, dried	Dry	Proximates	Neutral Detergent Fibre	81.5	% d.b.	Feedipedia
Date	Date palm pedicels		Proximates	Neutral Detergent Fibre	54.8	% d.b.	Feedipedia
Date	Date palm flower stems		Proximates	Neutral Detergent Fibre	82.9	% d.b.	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Neutral Detergent Fibre	64.1	% d.b.	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Neutral Detergent Fibre	50.7	% d.b.	Feedipedia
Grape	Grape pomace	Silage	Proximates	Neutral Detergent Fibre	54.2	% d.b.	Feedipedia
Melon	Melon	Fruit, fresh. Cucumis melo	Proximates	Neutral Detergent Fibre	8	% d.b.	Feedipedia

Melon	Melon seeds	Cucumis melo	Proximates	Neutral Detergent Fibre	43.9	% d.b.	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Neutral Detergent Fibre	41.8	% d.b.	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Neutral Detergent Fibre	30.5	% d.b.	Feedipedia
Tomatoes	Tomato plant	Fresh, whole plant	Proximates	Neutral Detergent Fibre	37.4	% d.b.	Feedipedia
Tomatoes	Tomato, leaves	Fresh	Proximates	Neutral Detergent Fibre	29.9	% d.b.	Feedipedia
Tomatoes	Tomato, stems	Fresh	Proximates	Neutral Detergent Fibre	42.1	% d.b.	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Neutral Detergent Fibre	11.9	% d.b.	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Neutral Detergent Fibre	19	% d.b.	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Neutral Detergent Fibre	7.1	% d.b.	Feedipedia

Sugar beet	Sugar beet pulp		Proximates	Neutral Detergent Fibre	48.1	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Neutral Detergent Fibre	47.5	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Neutral Detergent Fibre	49.3	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Proximates	Neutral Detergent Fibre	50	% d.b.	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Neutral Detergent Fibre	20.4	% d.b.	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Proximates	Neutral Detergent Fibre	34.7	% d.b.	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Proximates	Neutral Detergent Fibre	47.2	% d.b.	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Neutral Detergent Fibre	42.7	% d.b.	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Neutral Detergent Fibre	40.1	% d.b.	Feedipedia

Potato	Sweet potato	Tubers, fresh	Proximates	Neutral Detergent Fibre	11.3	% d.b.	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Neutral Detergent Fibre	10.4	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Neutral Detergent Fibre	48.1	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Neutral Detergent Fibre	86.9	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Neutral Detergent Fibre	81.7	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Urea-treated, dehydrated	Proximates	Neutral Detergent Fibre	87.7	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse	NaOH-treated, fresh	Proximates	Neutral Detergent Fibre	79.3	% d.b.	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Neutral Detergent Fibre	0.8	% d.b.	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Neutral Detergent Fibre	67.7	% d.b.	Feedipedia

Sugar cane	Sugar cane tops	Silage	Proximates	Neutral Detergent Fibre	69.6	% d.b.	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Neutral Detergent Fibre	66.1	% d.b.	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Proximates	Neutral Detergent Fibre	56.2	% d.b.	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Neutral Detergent Fibre	12.8	% d.b.	Feedipedia
Poultry	Feather meal		Proximates	Neutral Detergent Fibre	55.8	% d.b.	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Neutral Detergent Fibre	64.1	% d.b.	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Neutral Detergent Fibre	43.8	% d.b.	Feedipedia
Shrimp	Shrimp heads, dried	Dehydrated	Proximates	Neutral Detergent Fibre	11.4	% d.b.	Feedipedia
Snail	Snail meal	With shells	Proximates	Neutral Detergent Fibre	12.9	% d.b.	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Neutral Detergent Fibre	8.8	% d.b.	Feedipedia
Bakery	Bakery and viennoiserie by products		Proximates	Neutral Detergent Fibre	7	% DM	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Neutral Detergent Fibre	0.1	% d.b.	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Neutral Detergent Fibre	0.4	% d.b.	Feedipedia
Corn	Maize starch		Proximates	Neutral Detergent Fibre	0.1	% d.b.	Feedipedia
Cassava	Cassava starch		Proximates	Neutral Detergent Fibre	0.4	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Neutral Detergent Fibre	48.3	%	Wet brewers' grains for beef cattle
Banana	Banana leaves		Proximates	Neutral Detergent Fibre	50-70	%	Utilization of fruit and vegetable wastes, FAO
Banana	Banana pseudo stems		Proximates	Neutral Detergent Fibre	50-70	%	Utilization of fruit and vegetable wastes, FAO

Beef	Rumen content	Abattoir waste	Proximates	Neutral Detergent Fibre	80.6	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Neutral Detergent Fibre	58.75	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Neutral Detergent Fibre	13.6	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Apple	Apple pomace	From juice making	Proximates	Neutral Detergent Fibre	567.9	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace	From puree making	Proximates	Neutral Detergent Fibre	413.8	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making

Wheat	Wheat meal		Proximates	Neutral Detergent Fibre	19	g/kg DM	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Sugar beet	Sugar beet molasses	From pulp	Proximates	Neutral Detergent Fibre	246	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Neutral Detergent Fibre	347	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Neutral Detergent Fibre	50	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Canola	Canola meal	Average of analysed values	Proximates	Neutral Detergent Fibre	294	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Grape	Grape pomace	Skin and seeds, white grape	Proximates	Neutral Detergent Fibre	515	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape pomace	Skin and seeds, red grape	Proximates	Neutral Detergent Fibre	580	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants

Grape	Grape marc	Grape marc from Gonzlez-Byass	Proximates	Neutral Detergent Fibre	626	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc	Grape marc from Movialsa	Proximates	Neutral Detergent Fibre	569	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape vine shoot		Proximates	Neutral Detergent Fibre	741	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	White	Proximates	Neutral Detergent Fibre	321	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Red	Proximates	Neutral Detergent Fibre	291	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Sherry	Proximates	Neutral Detergent Fibre	122	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape marc and lees		Proximates	Neutral Detergent Fibre	584	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Bamboo	Bamboo shoot shells		Proximates	Neutral Detergent Fibre	738	g/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep

Rice	Rice straw		Proximates	Neutral Detergent Fibre	764	g/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Wheat	Wheat bran		Proximates	Neutral Detergent Fibre	486	g/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep

Bamboo	Bamboo shoot shells	Ensiled	Proximates	Neutral Detergent Fibre	794	g/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Soy	Soybean meal	Soya bean	Proximates	Neutral Detergent Fibre	196	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed cake		Proximates	Neutral Detergent Fibre	277	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed hulls	Purified	Proximates	Neutral Detergent Fibre	528.1	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Neutral Detergent Fibre	624	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Neutral Detergent Fibre	413	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Neutral Detergent Fibre	366	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Neutral Detergent Fibre	326	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Grape	Grape seeds	White, Italian	Proximates	Neutral Detergent Fibre	519	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Red, Italian	Proximates	Neutral Detergent Fibre	542	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Californian	Proximates	Neutral Detergent Fibre	506	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Not ensiled	Proximates	Neutral Detergent Fibre	503	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Ensiled for 45 days	Proximates	Neutral Detergent Fibre	542	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	White, Italian	Proximates	Neutral Detergent Fibre	423	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Red, Italian	Proximates	Neutral Detergent Fibre	402	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Californian	Proximates	Neutral Detergent Fibre	350	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Not ensiled	Proximates	Neutral Detergent Fibre	379	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Ensiled for 45 days	Proximates	Neutral Detergent Fibre	404	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Citrus, unspecified	Citrus pulp, dried		Proximates	Neutral Detergent Fibre	242	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Neutral Detergent Fibre	230	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Neutral Detergent Fibre	210	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Proximates	Neutral Detergent Fibre	220	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange peel	Fresh	Proximates	Neutral Detergent Fibre	200	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange peel silage		Proximates	Neutral Detergent Fibre	228	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Neutral Detergent Fibre	193	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Proximates	Neutral Detergent Fibre	330	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon, dried	Whole	Proximates	Neutral Detergent Fibre	365	g/kg DM	Citrus by-products as ruminant feeds: A review

Distillers grain	Distillers grain	Corn, with solubles	Proximates	Neutral Detergent Fibre	351	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Neutral Detergent Fibre	306	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Neutral Detergent Fibre	302	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Neutral Detergent Fibre	537.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Neutral Detergent Fibre	490	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Neutral Detergent Fibre	379.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Neutral Detergent Fibre	349.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Neutral Detergent Fibre	372.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Neutral Detergent Fibre	398.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Neutral Detergent Fibre	450.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Neutral Detergent Fibre	481.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Neutral Detergent Fibre	417.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Neutral Detergent Fibre	392.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Orange	Bergamot peel		Proximates	Neutral Detergent Fibre	101	g/kg DM	Citrus by-products as ruminant feeds: A review
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Neutral Detergent Fibre	332	g/kg DM	Nutritive value of plantain and chicory for pigs

Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Neutral Detergent Fibre	295	g/kg DM	Nutritive value of plantain and chicory for pigs
Tomatoes	Tomato pomace	Pulper stage of tomato processing for paste	Proximates	Neutral Detergent Fibre	147.59	g/kg	Chemical characterizatio n of tomato pomace
Tomatoes	Tomato pomace	Finisher stage of tomato processing for paste	Proximates	Neutral Detergent Fibre	102.96	g/kg	Chemical characterizatio n of tomato pomace
Tomatoes	Tomato pomace	Before turbopress stage of tomato processing for paste	Proximates	Neutral Detergent Fibre	140.61	g/kg	Chemical characterizatio n of tomato pomace
Tomatoes	Tomato pomace	After turbopress stage of tomato processing for paste	Proximates	Neutral Detergent Fibre	150.67	g/kg	Chemical characterizatio n of tomato pomace

Distillers grain	Distillers grain	Wet corn mash solids	Proximates	Neutral Detergent Fibre	394	g/kg DM	Distillers grains as an energy source and effect of drying on protein availability
Distillers grain	Distillers corn stillage	Thin. Liquid from corn mash. Distilled, alcohol removed	Proximates	Neutral Detergent Fibre	117	g/kg DM	Distillers grains as an energy source and effect of drying on protein availability
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Proximates	Neutral Detergent Fibre	73.09	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Proximates	Neutral Detergent Fibre	68.01	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rape	Rape straw	490 fully ripe rape straw samples collected in China	Proximates	Neutral Detergent Fibre	70.79	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Proximates	Neutral Detergent Fibre	71.24	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Potato	Potato peel	A review of different publications	Proximates	Neutral Detergent Fibre	410	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	A review of different publications	Proximates	Neutral Detergent Fibre	353-462	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production

Potato	Potato pulp	Ensiled. A review of different publications	Proximates	Neutral Detergent Fibre	210-353	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Citrus, unspecified	Citrus pulp		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	2.9	% db	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Wheat	Wheat middlings		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	3.4	% db	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Wheat	Wheat	Ground	Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	1.1	% db	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Sugar beet	Sugar beet pulp		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	5.1	% db	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Distillers grain	Distillers, corn	FL 4/99	Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	15.2	% db	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Distillers grain	Distillers, corn	Fl 5/99	Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	14.8	% db	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Nuts, unspecified	Nut hulls	Almond, WH	Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	1.2	% db	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Cotton	Cottonseed	Whole, FL 5/99	Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	5.6	% db	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Sugar beet	Sugar beet pulp		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	4.3	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	3.95	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Sugar beet	Sugar beet pulp		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	2.92	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	1.99	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	2.1	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Rice	Rice bran		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	2.2	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	1.82	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	1.55	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Almond	Almond hulls		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	2.09	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	0.35	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	0.24	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Citrus, unspecified	Citrus pulp		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	0.74	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	3.92	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	1.48	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Bakery	Bakery waste		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	0.96	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	3.54	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	3.92	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Wheat	Wheat mill run		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	2.95	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	9.23	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	4.71	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	5.23	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	12.81	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	13.93	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Distillers grain	Distillers grain		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	16.75	% db	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp, dried		Proximates	Neutral Detergent Fibre Crude Protein (NDFCP)	4.4	g/kg DM	Citrus by-products as ruminant feeds: A review
Wheat	Wheat	Silage. Location: centre	Proximates	Neutral Detergent Fibre Digestibility (NDFD)	489	g/kg DM	Changes during aerobic exposure of wheat silages
Wheat	Wheat	Silage. Location: wall	Proximates	Neutral Detergent Fibre Digestibility (NDFD)	480	g/kg DM	Changes during aerobic exposure of wheat silages
Wheat	Wheat	Silage. Location: shoulder	Proximates	Neutral Detergent Fibre Digestibility (NDFD)	311	g/kg DM	Changes during aerobic exposure of wheat silages

Wheat	Wheat	Silage. Location: SEM	Proximates	Neutral Detergent Fibre Digestibility (NDFD)	90	g/kg DM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: centre	Proximates	Neutral Detergent Fibre Digestibility (NDFD)	504	g/kg DM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: wall	Proximates	Neutral Detergent Fibre Digestibility (NDFD)	491	g/kg DM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: shoulder	Proximates	Neutral Detergent Fibre Digestibility (NDFD)	286	g/kg DM	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: SEM	Proximates	Neutral Detergent Fibre Digestibility (NDFD)	92	g/kg DM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: centre	Proximates	Neutral Detergent Fibre Digestibility (NDFD)	441	g/kg DM	Changes during aerobic exposure of wheat silages

Sorghum	Sorghum silage	Location: wall	Proximates	Neutral Detergent Fibre Digestibility (NDFD)	490	g/kg DM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: shoulder	Proximates	Neutral Detergent Fibre Digestibility (NDFD)	295	g/kg DM	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: SEM	Proximates	Neutral Detergent Fibre Digestibility (NDFD)	118	g/kg DM	Changes during aerobic exposure of wheat silages
Apple	Apple pomace		Proximates	Neutral Detergent Fibre, amylase-treated, expressed inclusive of residual ash (aNDF)	561	g/kg DM	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace

Grape	Grape pomace		Proximates	Neutral Detergent Fibre, amylase-treated, expressed inclusive of residual ash (aNDF)	627	g/kg DM	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace
Nuts, unspecified	Nut hulls	Almond	Proximates	Neutral Detergent Fibre, amylase-treated, expressed inclusive of residual ash (aNDF)	322	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Cotton	Cottonseed	Cracked Pima	Proximates	Neutral Detergent Fibre, amylase-treated, expressed inclusive of residual ash (aNDF)	403	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Canola	Canola meal	Pellets (380g/kg CP, solvent)	Proximates	Neutral Detergent Fibre, amylase-treated, expressed inclusive of residual ash (aNDF)	271	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Distillers grain	Distillers grain	High CP (corn with solubles)	Proximates	Neutral Detergent Fibre, amylase-treated, expressed inclusive of residual ash (aNDF)	338	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Wheat	Wheat	Silage	Proximates	Neutral Detergent Fibre, amylase-treated, expressed inclusive of residual ash (aNDF)	537	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Citrus, unspecified	Citrus pulp		Proximates	Neutral Detergent Fibre, amylase-treated, expressed inclusive of residual ash (aNDF)	189	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Potato	Potato	Tubers (whole)	Proximates	Neutral Detergent Fibre, amylase-treated, expressed inclusive of residual ash (aNDF)	57	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Nuts, unspecified	Nut hulls	Almond	Proximates	Neutral Detergent Fibre, amylase-treated, free of residue ash (aNDFom)	319	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Cotton	Cottonseed	Cracked Pima	Proximates	Neutral Detergent Fibre, amylase-treated, free of residue ash (aNDFom)	385	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Canola	Canola meal	Pellets (380g/kg CP, solvent)	Proximates	Neutral Detergent Fibre, amylase-treated, free of residue ash (aNDFom)	237	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Distillers grain	Distillers grain	High CP (corn with solubles)	Proximates	Neutral Detergent Fibre, amylase-treated, free of residue ash (aNDFom)	331	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Wheat	Wheat	Silage	Proximates	Neutral Detergent Fibre, amylase-treated, free of residue ash (aNDFom)	495	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Citrus, unspecified	Citrus pulp		Proximates	Neutral Detergent Fibre, amylase-treated, free of residue ash (aNDFom)	185	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Potato	Potato	Tubers (whole)	Proximates	Neutral Detergent Fibre, amylase-treated, free of residue ash (aNDFom)	55	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Canola	Canola meal	Average of analysed values	Proximates	Neutral Detergent Insoluble Crude Protein (NDICP)	54	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Citrus, unspecified	Citrus pulp, dried		Proximates	Neutral Detergent Soluble Fibre (NDSF)	345	g/kg DM	Citrus by-products as ruminant feeds: A review
Apple	Apple pomace	Malus domestica	Proximates	Neutral Detergent Solubles (NDS)	47.5	% DM	Fruit waste as feed paper
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Neutral Detergent Solubles (NDS)	73.5	% DM	Utilization of fruit and vegetable wastes, FAO

Tomatoes	Tomato pomace	Solanum lucopersicum	Proximates	Neutral Detergent Solubles (NDS)	37.0-44.8	% DM	Vegetable waste as animal feed paper
Sugar beet	Sugar beet pulp	Beta vulgaris	Proximates	Neutral Detergent Solubles (NDS)	54.2	% DM	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Neutral Detergent Solubles (NDS)	57.8	% DM	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace/marc	Namily vitaceae	Proximates	Neutral Detergent Solubles (NDS)	37.1-48.5	% DM	Fruit waste as feed paper
Grape	Grape vine shoot	Vitis vinifera	Proximates	Neutral Detergent Solubles (NDS)	25.9	% DM	Fruit waste as feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Neutral Detergent Solubles (NDS)	72.5	% DM	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Neutral Detergent Solubles (NDS)	66.3	% DM	Utilization of fruit and vegetable wastes, FAO

Carrot	Carrot	Daucus carota	Proximates	Neutral Detergent Solubles (NDS)	91	% DM	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Neutral Detergent Solubles (NDS)	73.5	% DM	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Proximates	Neutral Detergent Solubles (NDS)	47.5	% DM	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Proximates	Neutral Detergent Solubles (NDS)	42-48.5	% DM	Utilization of fruit and vegetable wastes, FAO
Pineapple	Pineapple bran	Ananas comosus	Proximates	Neutral Detergent Solubles (NDS)	27	% DM	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Neutral Detergent Solubles (NDS)	37	% DM	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Neutral Detergent Solubles (NDS)	64.2	% DM	Utilization of fruit and vegetable wastes, FAO

Melon	Muskmelon, peels	Cucumis melo	Proximates	Neutral Detergent Solubles (NDS)	40.7	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Neutral Detergent Solubles (NDS)	66.2	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Neutral Detergent Solubles (NDS)	76	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Proximates	Neutral Detergent Solubles (NDS)	91	% DM	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Proximates	Neutral Detergent Solubles (NDS)	76	% DM	Vegetable waste as animal feed paper
Cucumber	Cucumber	Cucumis sativus	Proximates	Neutral Detergent Solubles (NDS)	83.2	% DM	Vegetable waste as animal feed paper
Cucumber	Cucumber peel	Cucumis sativus	Proximates	Neutral Detergent Solubles (NDS)	63	% DM	Vegetable waste as animal feed paper

Food, unspecified	Grocery by-product waste	Fruits, vegetables and bakery items from retail grocery stores	Proximates	Neutral Detergent Solubles (NDS)	85.8	% DM	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Proximates	Neutral Detergent Solubles (NDS)	74.4	% DM	Vegetable waste as animal feed paper
Tomatoes	Tomato	L.esculentum	Proximates	Neutral Detergent Solubles (NDS)	74-80.9	% DM	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Neutral Detergent Solubles (NDS)	37-44.8	% DM	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Proximates	Neutral Detergent Solubles (NDS)	66.3	% DM	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Proximates	Neutral Detergent Solubles (NDS)	72.5	% DM	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Neutral Detergent Solubles (NDS)	57.8	% DM	Vegetable waste as animal feed paper

Grape	Grape pomace	Skin and seeds, white grape	Proximates	Neutral detergent fibre digestibility	22.39	MJ/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape pomace	Skin and seeds, red grape	Proximates	Neutral detergent fibre digestibility	14.94	MJ/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Cabbage	Cabbage meal		Proximates	Neutral detergent fibre digestibility	218	MJ/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Neutral detergent fibre digestibility	61.9	%	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Neutral detergent fibre digestibility	52.2	%	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Neutral detergent fibre digestibility	76.3	%	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace		Proximates	Neutral monosaccharide composition	192.02	mg/g dry pectins	NOSHAN
Orange	Orange peel	Orange	Proximates	Neutral monosaccharide composition	305	mg/g dry pectins	NOSHAN
Hop	Hops		Proximates	Neutral monosaccharide composition	105	mg/g dry pectins	NOSHAN
Apple	Apple cake		Proximates	Neutral monosaccharide composition	148.95	mg/g dry pectins	NOSHAN

Cabbage	Cabbage		Proximates	Neutral monosaccharide composition	377	mg/g dry pectins	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Neutral monosaccharide composition	154	mg/g dry pectins	NOSHAN
Grape	Grape pomace		Proximates	Neutral monosaccharide composition	46	mg/g dry pectins	NOSHAN
Olive	Olive pomace		Proximates	Neutral monosaccharide composition	330	mg/g dry pectins	NOSHAN
Onion	Onion hulls		Proximates	Neutral monosaccharide composition	142	mg/g dry pectins	NOSHAN
Rape	Rapeseed press cake		Proximates	Neutral monosaccharide composition	153	mg/g dry pectins	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Neutral monosaccharide composition	316	mg/g dry pectins	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Proximates	Neutral monosaccharide composition	364	mg/g dry pectins	NOSHAN
Tomatoes	Tomato skin		Proximates	Neutral monosaccharide composition	105	mg/g dry pectins	NOSHAN
Apple	Apple	Whole	Proximates	Neutral monosaccharide composition	186	mg/g dry pectins	NOSHAN
Pears	Pear	Whole	Proximates	Neutral monosaccharide composition	162	mg/g dry pectins	NOSHAN
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Niacin	0.2	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Citrus, unspecified	Citrus meal, dried		Vitamins	Niacin	23	mg/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Vitamins	Niacin	24	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Vitamins	Niacin	40	mg/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Vitamins	Niacin	19.4	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Vitamins	Niacin	39	mg/kg DM	Citrus by-products as ruminant feeds: A review
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Niacin equivalent	0.2	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013

Poultry	Hatchery waste		Inorganics	Nickel	1.2	mg/kg	Composition of Australian meat chicken hatchery waste
Apple	Apple pomace		Inorganics	Nickel	0.28	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Nickel	0.73	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Nickel	0.21	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Nickel	2.96	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Nickel	1.35	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Nickel	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Nickel	0.43	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Nickel	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Nickel	0.18	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Nickel	0.3	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Nickel	0.11	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Nickel	2.22	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Nickel	0.21	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Nickel	27.43	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Nickel	2	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Nickel	1.69	ppm d.b.	NOSHAN

Onion	Onion	Slices, fresh	Inorganics	Nickel	3.39	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Nickel	1.05	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Nickel	0.51	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Nickel	4.88	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Nickel	2	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Nickel	2.8	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Nickel	<0.1	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Nickel	<0.1	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Nickel	1.55	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Nickel	0.13	ppm d.b.	NOSHAN
Grape	Grape marc		Inorganics	Nickel	1.18	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape stalks		Inorganics	Nickel	1.05	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Inorganics	Nickel	1.77	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape seeds		Inorganics	Nickel	1.69	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape oil cake		Inorganics	Nickel	2.39	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Inorganics	Nickel	0.49	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato peel		Inorganics	Nickel	1.5	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato seed		Inorganics	Nickel	1.5	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Inorganics	Nickel	1.8	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato meal		Inorganics	Nickel	3.8	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato residues, dried	Dry	Inorganics	Nickel	1.9	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Inorganics	Nickel	2.7	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Nickel	2.6	mg/kg DM	ECN Phyllis 2

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Nickel	12	mg/kg DM	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Nickel	11	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Nickel	14	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Nickel	12.8	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Nickel	4	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Nickel	7	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Nickel	8	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Nickel	1.5	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Nickel	6.8	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Nickel	91.3	mg/kg DM	ECN Phyllis 2
Apple	Apple		Inorganics	Nickel	1.1	mg/kg DM	ECN Phyllis 2
Apple	Apple	Cox	Inorganics	Nickel	0.9	mg/kg DM	ECN Phyllis 2
Brussels sprouts	Brussels sprouts		Inorganics	Nickel	2.3	mg/kg DM	ECN Phyllis 2
Brussels sprouts	Brussels sprouts		Inorganics	Nickel	0.6	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Nickel	1.4	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Nickel	0.8	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Nickel	0.7	mg/kg DM	ECN Phyllis 2
Cauliflower	Cauliflower		Inorganics	Nickel	0.5	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Nickel	0.7	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Nickel	1.2	mg/kg DM	ECN Phyllis 2

Cucumber	Cucumber		Inorganics	Nickel	0.6	mg/kg DM	ECN Phyllis 2
Leek	Leek		Inorganics	Nickel	0.9	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Nickel	6.1	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Nickel	1.4	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Nickel	2.3	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Nickel	1	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Nickel	1.2	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Nickel	1.6	mg/kg DM	ECN Phyllis 2
Onion	Onion		Inorganics	Nickel	1.4	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet		Inorganics	Nickel	2.7	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet		Inorganics	Nickel	1.9	mg/kg DM	ECN Phyllis 2
Spinach	Spinach		Inorganics	Nickel	3.4	mg/kg DM	ECN Phyllis 2
Spinach	Spinach		Inorganics	Nickel	1.9	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Nickel	9.8	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Nickel	13	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Nickel	32	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Nickel	20	mg/kg DM	ECN Phyllis 2
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Nickel	13.1	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO

Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Nickel	9.8	ppm veg/fruit waste	Utilization of fruit and vegetable wastes, FAO
Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Nickel	1	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Nickel	0.8	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Nickel	0.6	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Nickel	0.1	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Nickel	1.7	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations

Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Inorganics	Nickel	1.32	mg/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK
Food, unspecified	Food leftovers	Source segregated domestic food waste in Luton, UK	Inorganics	Nickel	0.41	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Hackney, UK	Inorganics	Nickel	0.35	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Source segregated domestic food waste in Ludlow, UK	Inorganics	Nickel	1.66	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Eastleigh, UK	Inorganics	Nickel	0.76	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Nickel	0.70	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Nickel	2.9	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Nickel	1.1	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Nickel	1.3	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Abattoir wastes, unspecified	Abattoir raw effluent		Waste compounds	Nitrate	694	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Waste compounds	Nitrate	351	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Waste compounds	Nitrate	339	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Waste compounds	Nitrate	284	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Waste compounds	Nitrate	392	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Waste compounds	Nitrate	81	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Waste compounds	Nitrate	95	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Waste compounds	Nitrate	66	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Waste compounds	Nitrate	64	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Waste compounds	Nitrate	24	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Waste compounds	Nitrate	19	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Waste compounds	Nitrate	28	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Nitrate nitrogen (NO3-N)	2480	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Nitrate nitrogen (NO3-N)	1135	mg/kg DM	Composted slaughterhouse waste as organic fertilizer

Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Nitrate nitrogen (NO3-N)	61	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Nitrate nitrogen (NO3-N)	122	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Inorganics	Nitrate nitrogen (NO3-N)	1	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Aubergine	Aubergine plant		Proximates	Nitrogen	0.36	%	ECN Phyllis 2
Apricot	Apricot stones	Apricot stones as waste product of canning industry, Bulgaria	Proximates	Nitrogen	0.19	g/100g	ECN Phyllis 2
Apple	Apple waste		Proximates	Nitrogen	4.2	g/kg	Cropgen database
Apple	Apple pomace		Proximates	Nitrogen	12	g/kg	NOSHAN
Orange	Orange peel	Orange	Proximates	Nitrogen	13.03	g/kg	NOSHAN

Cheese	Whey	Milk	Proximates	Nitrogen	23.78	g/kg	NOSHAN
Hop	Hops		Proximates	Nitrogen	25.86	g/kg	NOSHAN
Apple	Apple cake		Proximates	Nitrogen	5.2	g/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Nitrogen	65	g/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Nitrogen	55	g/kg	NOSHAN
Cabbage	Cabbage		Proximates	Nitrogen	12.69	g/kg	NOSHAN
Cheese	Cheese	Hard	Proximates	Nitrogen	65	g/kg	NOSHAN
Cheese	Cheese	Soft	Proximates	Nitrogen	27	g/kg	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Nitrogen	44.58	g/kg	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Nitrogen	13.06	g/kg	NOSHAN
Grape	Grape pomace		Proximates	Nitrogen	20.44	g/kg	NOSHAN
Barley	Malted barley germs		Proximates	Nitrogen	57	g/kg	NOSHAN
Mushrooms	Mushrooms		Proximates	Nitrogen	54.06	g/kg	NOSHAN
Onion	Onion hulls		Proximates	Nitrogen	16.88	g/kg	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Nitrogen	5.09	g/kg	NOSHAN
Potato	Potato	Selected	Proximates	Nitrogen	17.65	g/kg	NOSHAN
Potato	Potato skin		Proximates	Nitrogen	31.52	g/kg	NOSHAN
Rape	Rapeseed press cake		Proximates	Nitrogen	56.33	g/kg	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Nitrogen	10	g/kg	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Proximates	Nitrogen	33.07	g/kg	NOSHAN
Tomatoes	Tomato skin		Proximates	Nitrogen	21.17	g/kg	NOSHAN
Apple	Apple	Whole	Proximates	Nitrogen	5.4	g/kg	NOSHAN
Pears	Pear	Whole	Proximates	Nitrogen	6.19	g/kg	NOSHAN
Yoghurt	Yoghurt		Proximates	Nitrogen	49.53	g/kg	NOSHAN
Poultry	Hatchery waste		Proximates	Nitrogen	36000	g/kg	Composition of Australian meat chicken hatchery waste
Sunflower	Sunflower oil cake	By-product. Helianthus annuus (seed)	Proximates	Nitrogen	4.6	% DM	Cropgen database
Rice	Rice husk	Before soaking pre-treatment	Proximates	Nitrogen	0.48	% DM	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Rice	Rice husk, dried	Soaked rice husks, dried	Proximates	Nitrogen	0.37	% DM	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Sugar by-products, unspecified	Bagasse		Proximates	Nitrogen	0.6	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Sugar by-products, unspecified	Trash		Proximates	Nitrogen	0.6	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Grape	Grape marc		Proximates	Nitrogen	2.48	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape stalks		Proximates	Nitrogen	1.93	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Proximates	Nitrogen	2.08	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape seeds		Proximates	Nitrogen	2.47	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape oil cake		Proximates	Nitrogen	2	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Proximates	Nitrogen	2.58	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato peel		Proximates	Nitrogen	2.4	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato seed		Proximates	Nitrogen	4.9	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Proximates	Nitrogen	5.6	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato meal		Proximates	Nitrogen	6.7	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato residues, dried	Dry	Proximates	Nitrogen	2.5	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Proximates	Nitrogen	3.2	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Proximates	Nitrogen	<0.2	% DM	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Proximates	Nitrogen	<0.2	% DM	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Sugar cane	Sugar cane bagasse		Proximates	Nitrogen	1.71	% DM	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Sugar cane	Sugar cane bagasse		Proximates	Nitrogen	1.69	% DM	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations

Cotton	Cotton stalk		Proximates	Nitrogen	1.15	% DM	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Proximates	Nitrogen	4.6	% DM	Cropgen database
Rice	Rice husk		Proximates	Nitrogen	1.1	% DM	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Variety: Lemont LG	Proximates	Nitrogen	0.38	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis

Rice	Rice husk	Variety: ROK 14	Proximates	Nitrogen	0.4	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: CP4	Proximates	Nitrogen	0.5	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: Pa Potho	Proximates	Nitrogen	0.51	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Sunflower	Sunflower oil cake		Proximates	Nitrogen	4.6	% dry ash free basis	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake

Rice	Rice husk	Raw	Proximates	Nitrogen	3.8	% dry ash free basis	Development of photoluminescent glass derived from rice husk
Babassu	Babassu cake		Proximates	Nitrogen	4	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Canola	Canola cake		Proximates	Nitrogen	7.5	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Castor	Castor seed cake		Proximates	Nitrogen	8.7	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower cake		Proximates	Nitrogen	4.7	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Apple	Apple		Proximates	Nitrogen	0.035	g N/g volatile solids	Cropgen database
Banana	Banana		Proximates	Nitrogen	0.033	g N/g volatile solids	Cropgen database
Orange	Orange		Proximates	Nitrogen	0.04	g N/g volatile solids	Cropgen database
Potato	Potato		Proximates	Nitrogen	0.023	g N/g volatile solids	Cropgen database

Carrot	Carrot	Daucus carota, growth stage at harvest: vegetative stage+root	Proximates	Nitrogen	0.062	g/g volatile solids	Cropgen database
Rape	Oil seed rape	Brassica napus, growth stage at harvest: reproductive stage (pod filled)	Proximates	Nitrogen	0.062	g/g volatile solids	Cropgen database
Rape	Rapeseed	Usual harvest time for animal food	Proximates	Nitrogen	1.88	% total solids	Cropgen database
Rape	Rapeseed straw	Brassica rapa spp. Oleifera	Proximates	Nitrogen	1.6	% total solids	Cropgen database
Sugar beet	Sugar beet tops	Beta vulgaris, harvest time: October	Proximates	Nitrogen	2.8	% total solids	Cropgen database
Sugar beet	Sugar beet tops	Residual	Proximates	Nitrogen	2.2	% total solids	Cropgen database

Beef	Paunch		Proximates	Nitrogen	2.2	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Dissolved air flotation sludge		Proximates	Nitrogen	5.7	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Soft offal		Proximates	Nitrogen	3.1	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Mixture of paunch, dissolved air flotation sludge and soft offal at annual production ratios		Proximates	Nitrogen	3.9	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Sunflower	Sunflower extracted bagasse		Proximates	Nitrogen	8	wt% daf	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse

Sunflower	Sunflower extracted atmosphere oil		Proximates	Nitrogen	10.1	wt% daf	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Sunflower	Sunflower extracted atmosphere oil	Nitrogen	Proximates	Nitrogen	9.1	wt% daf	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Olive	Olive stones		Proximates	Nitrogen	0.2	% maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive stones	Carbonization solid product	Proximates	Nitrogen	1.1	% maf	Conversion of olive wastes to volatiles and carbon adsorbents

Olive	Olive stones	Vacuum carbonization solid product	Proximates	Nitrogen	0.9	% maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp		Proximates	Nitrogen	0.3	% maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp	Carbonization solid product	Proximates	Nitrogen	1	% maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp	Vacuum carbonization solid product	Proximates	Nitrogen	0.8	% maf	Conversion of olive wastes to volatiles and carbon adsorbents
Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Proximates	Nitrogen	3.26	% DM	Composted slaughterhouse waste as organic fertilizer

Potato	Potato peel		Proximates	Nitrogen	2.6	%	Production of alkaline protease by a thermophilic Bacillus subtilis under solid-state fermentation (SSF) condition using Imperata cylindrica grass and potato peel as low-cost medium: Characterization and application of enzyme in detergent formulation
Food, unspecified	Food leftovers	Domestic food waste (UK)	Proximates	Nitrogen	3.44	% total solids	Co-digestion of source segregated domestic food waste to improve process stability

Food, unspecified	Food leftovers	Source separated food waste	Proximates	Nitrogen	8.1	g/kg	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment
Beef	Cattle manure	Slurry	Proximates	Nitrogen	3.3	g/kg	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment
Beef	Cattle manure	Dairy cows excreta	Proximates	Nitrogen	5.2	g/kg	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment

Beef	Cattle manure	Cattle exreta - not dairy cows	Proximates	Nitrogen	5.2	g/kg	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Luton, UK	Proximates	Nitrogen	3.12	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Hackney, UK	Proximates	Nitrogen	3.13	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Ludlow, UK	Proximates	Nitrogen	3.42	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Eastleigh, UK	Proximates	Nitrogen	2.91	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Forssa, Finland	Proximates	Nitrogen	2.46	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Treviso, Italy	Proximates	Nitrogen	2.58	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste (to digester) obtained from collection rounds in Lisbon, Portugal	Proximates	Nitrogen	5.72	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Proximates	Nitrogen	0.68	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Proximates	Nitrogen	0.99	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rape	Rape straw	490 fully ripe rape straw samples collected in China	Proximates	Nitrogen	0.93	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Proximates	Nitrogen	1.13	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Poultry	Poultry manure, dried	878 layer manure samples collected in China	Proximates	Nitrogen	33.61	g/kg DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Nitrogen attached to Acid Detergent Fibre	706	g/kg total nitrogen	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Nitrogen attached to Acid Detergent Fibre	533	g/kg total nitrogen	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Rice	Rice straw		Proximates	Nitrogen degradability (effective, k=4%)	48	%	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Nitrogen degradability (effective, k=4%)	66	%	Feedipedia
Wheat	Wheat straw		Proximates	Nitrogen degradability (effective, k=4%)	53	%	Feedipedia

Wheat	Wheat forage	Fresh	Proximates	Nitrogen degradability (effective, k=4%)	62	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Nitrogen degradability (effective, k=4%)	57	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Nitrogen degradability (effective, k=4%)	42	%	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Nitrogen degradability (effective, k=4%)	68	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Nitrogen degradability (effective, k=4%)	54	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Nitrogen degradability (effective, k=4%)	55	%	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Nitrogen degradability (effective, k=4%)	55	%	Feedipedia

Rice	Rice bran	Defatted, fibre <11%	Proximates	Nitrogen degradability (effective, k=4%)	87	%	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Nitrogen degradability (effective, k=4%)	82	%	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Nitrogen degradability (effective, k=4%)	70	%	Feedipedia
Wheat	Wheat bran		Proximates	Nitrogen degradability (effective, k=4%)	84	%	Feedipedia
Wheat	Wheat grain		Proximates	Nitrogen degradability (effective, k=4%)	67	%	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Nitrogen degradability (effective, k=4%)	56	%	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Nitrogen degradability (effective, k=4%)	58	%	Feedipedia

Cotton	Cottonseed hulls		Proximates	Nitrogen degradability (effective, k=4%)	20	%	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Nitrogen degradability (effective, k=4%)	46	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Nitrogen degradability (effective, k=4%)	68	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Nitrogen degradability (effective, k=4%)	61	%	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Nitrogen degradability (effective, k=4%)	76	%	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Nitrogen degradability (effective, k=4%)	65	%	Feedipedia
Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Proximates	Nitrogen degradability (effective, k=4%)	81	%	Feedipedia

Olive	Olive oil cake	Crude, with stones	Proximates	Nitrogen degradability (effective, k=4%)	41	%	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Nitrogen degradability (effective, k=4%)	43	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Nitrogen degradability (effective, k=4%)	78	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Nitrogen degradability (effective, k=4%)	92	%	Feedipedia
Pumpkin	Pumpkin	Fruits, dried, Cucurbita sp.	Proximates	Nitrogen degradability (effective, k=4%)	83	%	Feedipedia
Rape	Rape forage	Fresh	Proximates	Nitrogen degradability (effective, k=4%)	85	%	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Nitrogen degradability (effective, k=4%)	66	%	Feedipedia

Canola	Canola meal	Oil <5% as fed	Proximates	Nitrogen degradability (effective, k=4%)	61	%	Feedipedia
Soy	Soybean straw		Proximates	Nitrogen degradability (effective, k=4%)	38	%	Feedipedia
Soy	Soybean hulls		Proximates	Nitrogen degradability (effective, k=4%)	65	%	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Nitrogen degradability (effective, k=4%)	72	%	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Nitrogen degradability (effective, k=4%)	71	%	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Nitrogen degradability (effective, k=4%)	77	%	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Nitrogen degradability (effective, k=4%)	71	%	Feedipedia

Soy	Soybeans	Extruded	Proximates	Nitrogen degradability (effective, k=4%)	62	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Nitrogen degradability (effective, k=4%)	80	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Nitrogen degradability (effective, k=4%)	91	%	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Nitrogen degradability (effective, k=4%)	95	%	Feedipedia
Sunflower	Sunflower seeds		Proximates	Nitrogen degradability (effective, k=4%)	65	%	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Nitrogen degradability (effective, k=4%)	86	%	Feedipedia
Coffee	Coffee hulls		Proximates	Nitrogen degradability (effective, k=4%)	62	%	Feedipedia

Grape	Grape pomace, dried	Dehydrated	Proximates	Nitrogen degradability (effective, k=4%)	17	%	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Nitrogen degradability (effective, k=4%)	33	%	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Nitrogen degradability (effective, k=4%)	23	%	Feedipedia
Tomatoes	Tomato plant	Fresh, whole plant	Proximates	Nitrogen degradability (effective, k=4%)	29	%	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Nitrogen degradability (effective, k=4%)	69	%	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Nitrogen degradability (effective, k=4%)	91	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Nitrogen degradability (effective, k=4%)	69	%	Feedipedia

Sugar cane	Sugar cane tops	Fresh	Proximates	Nitrogen degradability (effective, k=4%)	43	%	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Nitrogen degradability (effective, k=4%)	47	%	Feedipedia
Poultry	Feather meal		Proximates	Nitrogen degradability (effective, k=4%)	44	%	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Nitrogen degradability (effective, k=4%)	59	%	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Nitrogen degradability (effective, k=4%)	51	%	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Nitrogen degradability (effective, k=4%)	52	%	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Nitrogen degradability (effective, k=4%)	52	%	Feedipedia

Rice	Rice straw		Proximates	Nitrogen degradability (effective, k=6%)	43	%	Feedipedia
Wheat	Triticale grain		Proximates	Nitrogen degradability (effective, k=6%)	77	%	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Nitrogen degradability (effective, k=6%)	61	%	Feedipedia
Wheat	Wheat straw		Proximates	Nitrogen degradability (effective, k=6%)	51	%	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Nitrogen degradability (effective, k=6%)	58	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Nitrogen degradability (effective, k=6%)	54	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Nitrogen degradability (effective, k=6%)	51	%	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Nitrogen degradability (effective, k=6%)	36	%	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Nitrogen degradability (effective, k=6%)	63	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Nitrogen degradability (effective, k=6%)	48	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Nitrogen degradability (effective, k=6%)	46	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Nitrogen degradability (effective, k=6%)	65	%	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Nitrogen degradability (effective, k=6%)	46	%	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Nitrogen degradability (effective, k=6%)	62	%	Feedipedia

Rice	Rice bran	Defatted, fibre <11%	Proximates	Nitrogen degradability (effective, k=6%)	85	%	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Nitrogen degradability (effective, k=6%)	76	%	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Nitrogen degradability (effective, k=6%)	64	%	Feedipedia
Wheat	Wheat bran		Proximates	Nitrogen degradability (effective, k=6%)	80	%	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Nitrogen degradability (effective, k=6%)	72	%	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Nitrogen degradability (effective, k=6%)	79	%	Feedipedia
Wheat	Wheat grain		Proximates	Nitrogen degradability (effective, k=6%)	60	%	Feedipedia

Cacao/cocoa	Cocoa hulls		Proximates	Nitrogen degradability (effective, k=6%)	52	%	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Nitrogen degradability (effective, k=6%)	49	%	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Nitrogen degradability (effective, k=6%)	50	%	Feedipedia
Cotton	Cottonseed hulls		Proximates	Nitrogen degradability (effective, k=6%)	16	%	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Nitrogen degradability (effective, k=6%)	75	%	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Nitrogen degradability (effective, k=6%)	39	%	Feedipedia
Grape	Grape seeds		Proximates	Nitrogen degradability (effective, k=6%)	53	%	Feedipedia

Grape	Grape seed oil meal	Oil <5%	Proximates	Nitrogen degradability (effective, k=6%)	53	%	Feedipedia
Flax/linseed	Linseed meal		Proximates	Nitrogen degradability (effective, k=6%)	59	%	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Nitrogen degradability (effective, k=6%)	56	%	Feedipedia
Flax/linseed	Linseeds		Proximates	Nitrogen degradability (effective, k=6%)	77	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Nitrogen degradability (effective, k=6%)	60	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Nitrogen degradability (effective, k=6%)	56	%	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Nitrogen degradability (effective, k=6%)	72	%	Feedipedia

Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Nitrogen degradability (effective, k=6%)	60	%	Feedipedia
Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Proximates	Nitrogen degradability (effective, k=6%)	75	%	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Nitrogen degradability (effective, k=6%)	37	%	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Nitrogen degradability (effective, k=6%)	40	%	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Nitrogen degradability (effective, k=6%)	36	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Nitrogen degradability (effective, k=6%)	75	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Nitrogen degradability (effective, k=6%)	72	%	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Nitrogen degradability (effective, k=6%)	89	%	Feedipedia
Pumpkin	Pumpkin	Fruits, dried, Cucurbita sp.	Proximates	Nitrogen degradability (effective, k=6%)	81	%	Feedipedia
Rape	Rape forage	Fresh	Proximates	Nitrogen degradability (effective, k=6%)	81	%	Feedipedia
Rape	Rapeseed hulls		Proximates	Nitrogen degradability (effective, k=6%)	50	%	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Nitrogen degradability (effective, k=6%)	60	%	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Nitrogen degradability (effective, k=6%)	72	%	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Nitrogen degradability (effective, k=6%)	52	%	Feedipedia

Soy	Soybean straw		Proximates	Nitrogen degradability (effective, k=6%)	32	%	Feedipedia
Soy	Soybean hulls		Proximates	Nitrogen degradability (effective, k=6%)	58	%	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Nitrogen degradability (effective, k=6%)	65	%	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Nitrogen degradability (effective, k=6%)	65	%	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Nitrogen degradability (effective, k=6%)	70	%	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Nitrogen degradability (effective, k=6%)	65	%	Feedipedia
Soy	Soybeans	Toasted	Proximates	Nitrogen degradability (effective, k=6%)	60	%	Feedipedia

Soy	Soybeans	Extruded	Proximates	Nitrogen degradability (effective, k=6%)	54	%	Feedipedia
Sunflower	Sunflower hulls		Proximates	Nitrogen degradability (effective, k=6%)	40	%	Feedipedia
Sunflower	Sunflower screenings		Proximates	Nitrogen degradability (effective, k=6%)	40	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Nitrogen degradability (effective, k=6%)	75	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Nitrogen degradability (effective, k=6%)	79	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Nitrogen degradability (effective, k=6%)	75	%	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Nitrogen degradability (effective, k=6%)	95	%	Feedipedia

Sunflower	Sunflower seeds		Proximates	Nitrogen degradability (effective, k=6%)	63	%	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Nitrogen degradability (effective, k=6%)	43	%	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Nitrogen degradability (effective, k=6%)	98	%	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Nitrogen degradability (effective, k=6%)	85	%	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Nitrogen degradability (effective, k=6%)	82	%	Feedipedia
Coffee	Coffee hulls		Proximates	Nitrogen degradability (effective, k=6%)	60	%	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Nitrogen degradability (effective, k=6%)	16	%	Feedipedia

Grape	Grape pomace	Fresh	Proximates	Nitrogen degradability (effective, k=6%)	31	%	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Nitrogen degradability (effective, k=6%)	20	%	Feedipedia
Tomatoes	Tomato plant	Fresh, whole plant	Proximates	Nitrogen degradability (effective, k=6%)	26	%	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Nitrogen degradability (effective, k=6%)	96	%	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Nitrogen degradability (effective, k=6%)	94	%	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Nitrogen degradability (effective, k=6%)	61	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Nitrogen degradability (effective, k=6%)	45	%	Feedipedia

Sugar beet	Sugar beet pulp	Silage	Proximates	Nitrogen degradability (effective, k=6%)	56	%	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Nitrogen degradability (effective, k=6%)	88	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Nitrogen degradability (effective, k=6%)	61	%	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Nitrogen degradability (effective, k=6%)	30	%	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Nitrogen degradability (effective, k=6%)	40	%	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Nitrogen degradability (effective, k=6%)	43	%	Feedipedia
Poultry	Feather meal		Proximates	Nitrogen degradability (effective, k=6%)	39	%	Feedipedia

Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Nitrogen degradability (effective, k=6%)	55	%	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Nitrogen degradability (effective, k=6%)	45	%	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Nitrogen degradability (effective, k=6%)	48	%	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Nitrogen degradability (effective, k=6%)	46	%	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Nitrogen degradability (effective, k=6%)	47	%	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Nitrogen digestibility, growing pig	73.4	%	Feedipedia
Wheat	Triticale grain		Proximates	Nitrogen digestibility, growing pig	83.9	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Nitrogen digestibility, growing pig	76.9	%	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Nitrogen digestibility, growing pig	53.9	%	Feedipedia
Rice	Rice grain	Polished	Proximates	Nitrogen digestibility, growing pig	89.5	%	Feedipedia
Rice	Rice grain	Brown	Proximates	Nitrogen digestibility, growing pig	87.7	%	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Nitrogen digestibility, growing pig	74.5	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Nitrogen digestibility, growing pig	83	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Nitrogen digestibility, growing pig	79.5	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Nitrogen digestibility, growing pig	73.7	%	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Nitrogen digestibility, growing pig	79.5	%	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Nitrogen digestibility, growing pig	62.7	%	Feedipedia

Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Nitrogen digestibility, growing pig	55.6	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Nitrogen digestibility, growing pig	80.7	%	Feedipedia
Sorghum	Malted sorghum sprouts		Proximates	Nitrogen digestibility, growing pig	72.8	%	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Nitrogen digestibility, growing pig	61	%	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Nitrogen digestibility, growing pig	70.6	%	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Nitrogen digestibility, growing pig	63.5	%	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Nitrogen digestibility, growing pig	83.4	%	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Nitrogen digestibility, growing pig	67.4	%	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Nitrogen digestibility, growing pig	75.5	%	Feedipedia

Wheat	Wheat bran		Proximates	Nitrogen digestibility, growing pig	64.9	%	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Nitrogen digestibility, growing pig	71.4	%	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Nitrogen digestibility, growing pig	76.1	%	Feedipedia
Wheat	Wheat grain		Proximates	Nitrogen digestibility, growing pig	83.5	%	Feedipedia
Wheat	Wheat screenings		Proximates	Nitrogen digestibility, growing pig	79.2	%	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Nitrogen digestibility, growing pig	87.2	%	Feedipedia
Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Nitrogen digestibility, growing pig	72.8	%	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Nitrogen digestibility, growing pig	-7.7	%	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Nitrogen digestibility, growing pig	70.5	%	Feedipedia

Cacao/cocoa	Cocoa pod husks		Proximates	Nitrogen digestibility, growing pig	49.2	%	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Nitrogen digestibility, growing pig	70.9	%	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Nitrogen digestibility, growing pig	67.9	%	Feedipedia
Coconut	Coconut copra	Fresh	Proximates	Nitrogen digestibility, growing pig	83.8	%	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Nitrogen digestibility, growing pig	73.8	%	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Nitrogen digestibility, growing pig	76	%	Feedipedia
Flax/linseed	Linseed meal		Proximates	Nitrogen digestibility, growing pig	87.5	%	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Nitrogen digestibility, growing pig	87.8	%	Feedipedia
Flax/linseed	Linseeds		Proximates	Nitrogen digestibility, growing pig	83	%	Feedipedia

Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Nitrogen digestibility, growing pig	73.5	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Nitrogen digestibility, growing pig	73.9	%	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Nitrogen digestibility, growing pig	76.3	%	Feedipedia
Palm	Oil palm kernels		Proximates	Nitrogen digestibility, growing pig	69.9	%	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Nitrogen digestibility, growing pig	63.1	%	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Nitrogen digestibility, growing pig	64.7	%	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Nitrogen digestibility, growing pig	51.4	%	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Nitrogen digestibility, growing pig	29.6	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Nitrogen digestibility, growing pig	81	%	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Nitrogen digestibility, growing pig	85.4	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Nitrogen digestibility, growing pig	83	%	Feedipedia
Pumpkin	Pumpkin	Fruits, fresh, Cucurbita sp.	Proximates	Nitrogen digestibility, growing pig	69.4	%	Feedipedia
Rape	Rapeseed hulls		Proximates	Nitrogen digestibility, growing pig	52.3	%	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Nitrogen digestibility, growing pig	80.3	%	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Nitrogen digestibility, growing pig	82	%	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Nitrogen digestibility, growing pig	73.3	%	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Nitrogen digestibility, growing pig	88.6	%	Feedipedia
Soy	Soybean hulls		Proximates	Nitrogen digestibility, growing pig	40.4	%	Feedipedia

Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Nitrogen digestibility, growing pig	87	%	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Nitrogen digestibility, growing pig	89.6	%	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Nitrogen digestibility, growing pig	89.5	%	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Nitrogen digestibility, growing pig	86.5	%	Feedipedia
Soy	Soybeans	Toasted	Proximates	Nitrogen digestibility, growing pig	81.6	%	Feedipedia
Soy	Soybeans	Extruded	Proximates	Nitrogen digestibility, growing pig	87.1	%	Feedipedia
Sunflower	Sunflower hulls		Proximates	Nitrogen digestibility, growing pig	35.5	%	Feedipedia
Sunflower	Sunflower screenings		Proximates	Nitrogen digestibility, growing pig	35.5	%	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Nitrogen digestibility, growing pig	78.4	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Nitrogen digestibility, growing pig	81.2	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Nitrogen digestibility, growing pig	73.3	%	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Nitrogen digestibility, growing pig	78	%	Feedipedia
Sunflower	Sunflower seeds		Proximates	Nitrogen digestibility, growing pig	79.4	%	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Nitrogen digestibility, growing pig	40.1	%	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Nitrogen digestibility, growing pig	58	%	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Nitrogen digestibility, growing pig	73.5	%	Feedipedia

Banana	Banana fruits	Mature, fresh	Proximates	Nitrogen digestibility, growing pig	53.6	%	Feedipedia
Banana	Banana fruits, cooked	Mature, cooked	Proximates	Nitrogen digestibility, growing pig	51.8	%	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Nitrogen digestibility, growing pig	46.9	%	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Nitrogen digestibility, growing pig	41.4	%	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Nitrogen digestibility, growing pig	57.2	%	Feedipedia
Orange	Orange pulp, dried	Orange, dried	Proximates	Nitrogen digestibility, growing pig	58.1	%	Feedipedia
Orange	Orange pulp, dried	Mandarin, dried	Proximates	Nitrogen digestibility, growing pig	64.9	%	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Nitrogen digestibility, growing pig	42.6	%	Feedipedia
Orange	Orange pulp	Orange, fresh	Proximates	Nitrogen digestibility, growing pig	68.3	%	Feedipedia

Grapefruit	Grapefruit pulp	Grapefruit, fresh	Proximates	Nitrogen digestibility, growing pig	67.2	%	Feedipedia
Orange	Orange pulp	Clementine, fresh	Proximates	Nitrogen digestibility, growing pig	71.3	%	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Nitrogen digestibility, growing pig	69.6	%	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Nitrogen digestibility, growing pig	67.1	%	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Nitrogen digestibility, growing pig	74.2	%	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Nitrogen digestibility, growing pig	61.1	%	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Nitrogen digestibility, growing pig	67.9	%	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Nitrogen digestibility, growing pig	61.3	%	Feedipedia
Lime	Lime peel silage	Lime	Proximates	Nitrogen digestibility, growing pig	44.7	%	Feedipedia

Coffee	Coffee hulls		Proximates	Nitrogen digestibility, growing pig	16.3	%	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Nitrogen digestibility, growing pig	30.6	%	Feedipedia
Date	Date palm, pulp	Pulp, high ash, Phoenix dactylifera	Proximates	Nitrogen digestibility, growing pig	6	%	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Nitrogen digestibility, growing pig	61.1	%	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Nitrogen digestibility, growing pig	49.2	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Nitrogen digestibility, growing pig	52	%	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Nitrogen digestibility, growing pig	49.5	%	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Nitrogen digestibility, growing pig	35.9	%	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Proximates	Nitrogen digestibility, growing pig	73.1	%	Feedipedia

Potato	Sweet potato	Tubers, fresh	Proximates	Nitrogen digestibility, growing pig	44.7	%	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Nitrogen digestibility, growing pig	52.1	%	Feedipedia
Potato	Sweet potato	Tubers, cooked, fresh	Proximates	Nitrogen digestibility, growing pig	52.8	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Nitrogen digestibility, growing pig	49.2	%	Feedipedia
Sugar cane	Sugar cane juice		Proximates	Nitrogen digestibility, growing pig	85	%	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Nitrogen digestibility, growing pig	90.7	%	Feedipedia
Poultry	Feather meal		Proximates	Nitrogen digestibility, growing pig	72.1	%	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Nitrogen digestibility, growing pig	92.5	%	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Nitrogen digestibility, growing pig	86.8	%	Feedipedia

Fish, unspecified	Fish meal	Low protein	Proximates	Nitrogen digestibility, growing pig	86.9	%	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Nitrogen digestibility, growing pig	81.2	%	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Nitrogen digestibility, growing pig	82.1	%	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Nitrogen digestibility, growing pig	87	%	Feedipedia
Whale	Whale meal		Proximates	Nitrogen digestibility, growing pig	87.8	%	Feedipedia
Corn	Maize starch		Proximates	Nitrogen digestibility, growing pig	64.6	%	Feedipedia
Soy	Soybean meal	Soyabean meal	Proximates	Nitrogen digestibility, in vitro	0.922	N/A	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Nitrogen digestibility, in vitro	0.662	N/A	Wet barley distillers solids as a protein source for growing pigs

Wheat	Wheat straw		Proximates	Nitrogen digestibility, rabbit	60	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Nitrogen digestibility, rabbit	77	%	Feedipedia
Rice	Rice grain	Brown	Proximates	Nitrogen digestibility, rabbit	89	%	Feedipedia
Wheat	Wheat bran		Proximates	Nitrogen digestibility, rabbit	74	%	Feedipedia
Wheat	Wheat germs		Proximates	Nitrogen digestibility, rabbit	88.3	%	Feedipedia
Wheat	Wheat grain		Proximates	Nitrogen digestibility, rabbit	89.2	%	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Nitrogen digestibility, rabbit	57.7	%	Feedipedia
Cotton	Cottonseed hulls		Proximates	Nitrogen digestibility, rabbit	22	%	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Nitrogen digestibility, rabbit	45.1	%	Feedipedia

Flax/linseed	Linseed meal		Proximates	Nitrogen digestibility, rabbit	82.4	%	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Nitrogen digestibility, rabbit	72	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Nitrogen digestibility, rabbit	78.5	%	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Nitrogen digestibility, rabbit	9.9	%	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Nitrogen digestibility, rabbit	81.9	%	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Nitrogen digestibility, rabbit	88	%	Feedipedia
Sunflower	Sunflower hulls		Proximates	Nitrogen digestibility, rabbit	33.5	%	Feedipedia
Sunflower	Sunflower screenings		Proximates	Nitrogen digestibility, rabbit	33.5	%	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Nitrogen digestibility, rabbit	81	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Nitrogen digestibility, rabbit	81.6	%	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Nitrogen digestibility, rabbit	66.6	%	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Nitrogen digestibility, rabbit	67.3	%	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Nitrogen digestibility, rabbit	78.6	%	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Nitrogen digestibility, rabbit	59.2	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Nitrogen digestibility, rabbit	59.2	%	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Nitrogen digestibility, rabbit	67.9	%	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Nitrogen digestibility, rabbit	68.4	%	Feedipedia

Rabbit	Rabbit manure, dried	Dehydrated	Proximates	Nitrogen digestibility, rabbit	28	%	Feedipedia
Rice	Rice hay		Proximates	Nitrogen digestibility, ruminants	50	%	Feedipedia
Rice	Rice, aerial part	Fresh	Proximates	Nitrogen digestibility, ruminants	58	%	Feedipedia
Rice	Rice straw		Proximates	Nitrogen digestibility, ruminants	2.1	%	Feedipedia
Rice	Rice straw	Urea-treated	Proximates	Nitrogen digestibility, ruminants	43	%	Feedipedia
Rice	Rice straw	Ammonia-treated	Proximates	Nitrogen digestibility, ruminants	60.1	%	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Nitrogen digestibility, ruminants	65	%	Feedipedia
Wheat	Triticale grain		Proximates	Nitrogen digestibility, ruminants	69.5	%	Feedipedia
Wheat	Wheat hay		Proximates	Nitrogen digestibility, ruminants	58.9	%	Feedipedia

Wheat	Wheat straw		Proximates	Nitrogen digestibility, ruminants	3.5	%	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Nitrogen digestibility, ruminants	63.1	%	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Nitrogen digestibility, ruminants	43	%	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Nitrogen digestibility, ruminants	73.9	%	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Nitrogen digestibility, ruminants	78.4	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Nitrogen digestibility, ruminants	70.2	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Nitrogen digestibility, ruminants	76.5	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Nitrogen digestibility, ruminants	78.3	%	Feedipedia
Rice	Rice grain	Polished	Proximates	Nitrogen digestibility, ruminants	86.6	%	Feedipedia

Rice	Rice grain	Brown	Proximates	Nitrogen digestibility, ruminants	68.5	%	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Nitrogen digestibility, ruminants	70.2	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Nitrogen digestibility, ruminants	77	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Nitrogen digestibility, ruminants	78.7	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Nitrogen digestibility, ruminants	81.2	%	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Nitrogen digestibility, ruminants	78.7	%	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Nitrogen digestibility, ruminants	75.8	%	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Nitrogen digestibility, ruminants	68	%	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Nitrogen digestibility, ruminants	39.6	%	Feedipedia

Rice	Rice bran	Defatted, fibre <11%	Proximates	Nitrogen digestibility, ruminants	72.7	%	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Nitrogen digestibility, ruminants	71	%	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Nitrogen digestibility, ruminants	26.8	%	Feedipedia
Rice	Rice hull		Proximates	Nitrogen digestibility, ruminants	7.4	%	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Nitrogen digestibility, ruminants	76	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Nitrogen digestibility, ruminants	76	%	Feedipedia
Distillers grain	Distillers grain	Fresh, Sorghum, with or without solubles	Proximates	Nitrogen digestibility, ruminants	78.3	%	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Nitrogen digestibility, ruminants	78.2	%	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Nitrogen digestibility, ruminants	68.4	%	Feedipedia

Sorghum	Sorghum grain	High tannin	Proximates	Nitrogen digestibility, ruminants	66.8	%	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Nitrogen digestibility, ruminants	70.5	%	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Nitrogen digestibility, ruminants	67.5	%	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Nitrogen digestibility, ruminants	68.3	%	Feedipedia
Wheat	Wheat bran		Proximates	Nitrogen digestibility, ruminants	68.2	%	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Nitrogen digestibility, ruminants	77.1	%	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Nitrogen digestibility, ruminants	76.3	%	Feedipedia
Wheat	Wheat grain		Proximates	Nitrogen digestibility, ruminants	70.4	%	Feedipedia
Wheat	Wheat screenings		Proximates	Nitrogen digestibility, ruminants	70.8	%	Feedipedia

Castor	Castor oil meal	Ricinus communis	Proximates	Nitrogen digestibility, ruminants	80.8	%	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Nitrogen digestibility, ruminants	35.8	%	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Nitrogen digestibility, ruminants	76.5	%	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Nitrogen digestibility, ruminants	76.7	%	Feedipedia
Cotton	Cottonseed hulls		Proximates	Nitrogen digestibility, ruminants	2.6	%	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Nitrogen digestibility, ruminants	81.8	%	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Nitrogen digestibility, ruminants	82.8	%	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Nitrogen digestibility, ruminants	77.5	%	Feedipedia
Flax/linseed	Flax straw		Proximates	Nitrogen digestibility, ruminants	26.6	%	Feedipedia

Flax/linseed	Flax hay		Proximates	Nitrogen digestibility, ruminants	62	%	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Nitrogen digestibility, ruminants	49.8	%	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Proximates	Nitrogen digestibility, ruminants	68.7	%	Feedipedia
Flax/linseed	Linseed meal		Proximates	Nitrogen digestibility, ruminants	76.6	%	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Nitrogen digestibility, ruminants	76.9	%	Feedipedia
Flax/linseed	Linseeds		Proximates	Nitrogen digestibility, ruminants	73.9	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Nitrogen digestibility, ruminants	78.8	%	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Nitrogen digestibility, ruminants	85.6	%	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Nitrogen digestibility, ruminants	83	%	Feedipedia

Palm	Oil palm kernels		Proximates	Nitrogen digestibility, ruminants	67.1	%	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Nitrogen digestibility, ruminants	8.5	%	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Nitrogen digestibility, ruminants	24	%	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Nitrogen digestibility, ruminants	21.3	%	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Nitrogen digestibility, ruminants	14	%	Feedipedia
Olive	Olive skins		Proximates	Nitrogen digestibility, ruminants	32.8	%	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Nitrogen digestibility, ruminants	73.3	%	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Nitrogen digestibility, ruminants	74.2	%	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Nitrogen digestibility, ruminants	65.3	%	Feedipedia

Nuts, unspecified	Nut hulls	Peanut	Proximates	Nitrogen digestibility, ruminants	18.7	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Nitrogen digestibility, ruminants	79.4	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Nitrogen digestibility, ruminants	94	%	Feedipedia
Peanuts	Peanuts, with shells	With shells	Proximates	Nitrogen digestibility, ruminants	74	%	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Nitrogen digestibility, ruminants	18.5	%	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Nitrogen digestibility, ruminants	79.1	%	Feedipedia
Pumpkin	Pumpkin hulls	Cucurbita sp.	Proximates	Nitrogen digestibility, ruminants	38	%	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Nitrogen digestibility, ruminants	81	%	Feedipedia
Pumpkin	Pumpkin seeds	Without hulls, Cucurbita sp.	Proximates	Nitrogen digestibility, ruminants	84	%	Feedipedia

Rape	Rape forage	Fresh	Proximates	Nitrogen digestibility, ruminants	88.5	%	Feedipedia
Rape	Rapeseed hulls		Proximates	Nitrogen digestibility, ruminants	58.1	%	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Nitrogen digestibility, ruminants	74.7	%	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Nitrogen digestibility, ruminants	74.6	%	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Nitrogen digestibility, ruminants	80	%	Feedipedia
Safflower	Safflower meal	Without hulls, expeller extraction. Carthamus tinctorius	Proximates	Nitrogen digestibility, ruminants	88	%	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Nitrogen digestibility, ruminants	78.4	%	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Nitrogen digestibility, ruminants	74.7	%	Feedipedia

Soy	Soybean hay		Proximates	Nitrogen digestibility, ruminants	83.1	%	Feedipedia
Soy	Soybean straw		Proximates	Nitrogen digestibility, ruminants	49.5	%	Feedipedia
Soy	Soybean hulls		Proximates	Nitrogen digestibility, ruminants	78.4	%	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Nitrogen digestibility, ruminants	80.4	%	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Nitrogen digestibility, ruminants	80.4	%	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Nitrogen digestibility, ruminants	80.2	%	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Nitrogen digestibility, ruminants	92.5	%	Feedipedia
Soy	Soybeans	Toasted	Proximates	Nitrogen digestibility, ruminants	83.7	%	Feedipedia
Soy	Soybeans	Extruded	Proximates	Nitrogen digestibility, ruminants	83.6	%	Feedipedia

Sunflower	Sunflower forage	Fresh	Proximates	Nitrogen digestibility, ruminants	70.3	%	Feedipedia
Sunflower	Sunflower forage	Silage	Proximates	Nitrogen digestibility, ruminants	63.1	%	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Proximates	Nitrogen digestibility, ruminants	6	%	Feedipedia
Sunflower	Sunflower heads	Without seeds	Proximates	Nitrogen digestibility, ruminants	57.5	%	Feedipedia
Sunflower	Sunflower screenings		Proximates	Nitrogen digestibility, ruminants	43.4	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Nitrogen digestibility, ruminants	84.5	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Nitrogen digestibility, ruminants	87.7	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Nitrogen digestibility, ruminants	85.8	%	Feedipedia

Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Nitrogen digestibility, ruminants	75	%	Feedipedia
Sunflower	Sunflower seeds		Proximates	Nitrogen digestibility, ruminants	90.1	%	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Nitrogen digestibility, ruminants	72	%	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Nitrogen digestibility, ruminants	90	%	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Nitrogen digestibility, ruminants	50	%	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Nitrogen digestibility, ruminants	51.8	%	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Nitrogen digestibility, ruminants	0	%	Feedipedia
Banana	Banana	Aerial part, fresh	Proximates	Nitrogen digestibility, ruminants	54.7	%	Feedipedia
Banana	Banana peel	Mature, fresh	Proximates	Nitrogen digestibility, ruminants	34.1	%	Feedipedia

Banana	Banana peel	Immature, fresh	Proximates	Nitrogen digestibility, ruminants	22	%	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Nitrogen digestibility, ruminants	64	%	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Nitrogen digestibility, ruminants	64	%	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Nitrogen digestibility, ruminants	63.4	%	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Nitrogen digestibility, ruminants	67.6	%	Feedipedia
Orange	Orange pulp, dried	Orange, dried	Proximates	Nitrogen digestibility, ruminants	66.9	%	Feedipedia
Orange	Orange pulp, dried	Mandarin, dried	Proximates	Nitrogen digestibility, ruminants	69.2	%	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Nitrogen digestibility, ruminants	67.6	%	Feedipedia
Orange	Orange pulp	Orange, fresh	Proximates	Nitrogen digestibility, ruminants	72.2	%	Feedipedia

Grapefruit	Grapefruit pulp	Grapefruit, fresh	Proximates	Nitrogen digestibility, ruminants	70.2	%	Feedipedia
Orange	Orange pulp	Clementine, fresh	Proximates	Nitrogen digestibility, ruminants	74.1	%	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Nitrogen digestibility, ruminants	75.4	%	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Nitrogen digestibility, ruminants	71.1	%	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Nitrogen digestibility, ruminants	76.8	%	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Nitrogen digestibility, ruminants	67.7	%	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Nitrogen digestibility, ruminants	70.6	%	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Nitrogen digestibility, ruminants	64.5	%	Feedipedia
Lime	Lime peel silage	Lime	Proximates	Nitrogen digestibility, ruminants	66.7	%	Feedipedia

Coffee	Instant coffee by product		Proximates	Nitrogen digestibility, ruminants	0	%	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Nitrogen digestibility, ruminants	30.1	%	Feedipedia
Date	Date palm leaves	Fresh	Proximates	Nitrogen digestibility, ruminants	22	%	Feedipedia
Date	Date palm leaves, dried	Dry	Proximates	Nitrogen digestibility, ruminants	51.4	%	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Nitrogen digestibility, ruminants	28	%	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Nitrogen digestibility, ruminants	15.2	%	Feedipedia
Grape	Grape pomace	Silage	Proximates	Nitrogen digestibility, ruminants	42.1	%	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Nitrogen digestibility, ruminants	0	%	Feedipedia
Pineapple	Pineapple leaves	Fresh, Ananas comosus	Proximates	Nitrogen digestibility, ruminants	77.1	%	Feedipedia

Sugar beet	Sugar beet molasses		Proximates	Nitrogen digestibility, ruminants	72.1	%	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Nitrogen digestibility, ruminants	77	%	Feedipedia
Carrot	Carrot tops	Fresh	Proximates	Nitrogen digestibility, ruminants	62	%	Feedipedia
Potato	Potato, aerial part	Ensiled	Proximates	Nitrogen digestibility, ruminants	37.5	%	Feedipedia
Potato	Potato aerial part	Fresh	Proximates	Nitrogen digestibility, ruminants	44	%	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Nitrogen digestibility, ruminants	51	%	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Nitrogen digestibility, ruminants	70.7	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Nitrogen digestibility, ruminants	71.6	%	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Nitrogen digestibility, ruminants	69.1	%	Feedipedia

Sugar beet	Sugar beet pulp	Silage	Proximates	Nitrogen digestibility, ruminants	70.2	%	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Nitrogen digestibility, ruminants	89.2	%	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Proximates	Nitrogen digestibility, ruminants	64	%	Feedipedia
Sugar beet	Sugar beet tops	Silage	Proximates	Nitrogen digestibility, ruminants	62.5	%	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Proximates	Nitrogen digestibility, ruminants	48	%	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Nitrogen digestibility, ruminants	33	%	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Nitrogen digestibility, ruminants	37.5	%	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Nitrogen digestibility, ruminants	46.8	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Nitrogen digestibility, ruminants	70.7	%	Feedipedia

Sugar cane	Sugar cane molasses		Proximates	Nitrogen digestibility, ruminants	43.1	%	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Nitrogen digestibility, ruminants	43.6	%	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Nitrogen digestibility, ruminants	18	%	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Nitrogen digestibility, ruminants	82.5	%	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Nitrogen digestibility, ruminants	86.6	%	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Nitrogen digestibility, ruminants	88.5	%	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Nitrogen digestibility, ruminants	74.7	%	Feedipedia
Poultry	Feather meal		Proximates	Nitrogen digestibility, ruminants	74.1	%	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Nitrogen digestibility, ruminants	95	%	Feedipedia

Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Nitrogen digestibility, ruminants	75.1	%	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Nitrogen digestibility, salmonids	83.7	%	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Nitrogen digestibility, salmonids	83.7	%	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Nitrogen digestibility, salmonids	89.8	%	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Nitrogen digestibility, salmonids	62.2	%	Feedipedia
Poultry	Feather meal		Proximates	Nitrogen digestibility, salmonids	64.4	%	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Nitrogen digestibility, salmonids	90.7	%	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Nitrogen digestibility, salmonids	87.7	%	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Nitrogen digestibility, salmonids	72.6	%	Feedipedia

Soy	Soybean meal	Soya bean	Proximates	Nitrogen free extract	343	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed cake		Proximates	Nitrogen free extract	334	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Distillery by-products, unspecified	Distillers solids		Proximates	Nitrogen free extract	256	g/kg DM	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Barley	Barley		Proximates	Nitrogen free extract	765	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Soy	Soybean meal	Soyabean meal	Proximates	Nitrogen free extract	295	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Nitrogen free extract	332	g/kg DM	Wet barley distillers solids as a protein source for growing pigs

Potato	Potato peel		Proximates	Nitrogen free extract	52.4	%	Production of alkaline protease by a thermophilic Bacillus subtilis under solid-state fermentation (SSF) condition using Imperata cylindrica grass and potato peel as low-cost medium: Characterization and application of enzyme in detergent formulation
Poultry	Hatchery waste		Proximates	Nitrogen oxides (Nox)	0.78	mg/kg	Composition of Australian meat chicken hatchery waste

Apple	Apple pomace		Proximates	Nitrogen to protein conversion factor	5.74	calculated from total amino acids	NOSHAN
Orange	Orange peel	Orange	Proximates	Nitrogen to protein conversion factor	5.67	calculated from total amino acids	NOSHAN
Cheese	Whey	Milk	Proximates	Nitrogen to protein conversion factor	6.11	calculated from total amino acids	NOSHAN
Hop	Hops		Proximates	Nitrogen to protein conversion factor	5.1	calculated from total amino acids	NOSHAN
Beef	Solid cattle slaughterhouse wastes		Proximates	Nitrogen, Kjeldahl	0.89	g/L	Anaerobic co-digestion of solid slaughterhouse wastes with agro-residues: Synergistic and antagonistic interactions determined in batch digestion assays

Animal by-products, unspecified	Greaves		Proximates	Nitrogen, Kjeldahl	70	g/kg wet waste	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments
Animal by-products, unspecified	Rinds		Proximates	Nitrogen, Kjeldahl	73	g/kg	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments

Beef	Solid cattle slaughterhouse wastes		Proximates	Nitrogen, Kjeldahl	21	g/kg wet waste	Anaerobic co-digestion of solid slaughterhouse wastes with agro-residues: Synergistic and antagonistic interactions determined in batch digestion assays
Food, unspecified	Food leftovers	Domestic food waste (UK)	Proximates	Nitrogen, Kjeldahl	8.12	g/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations
Cheese	Whey	Cheese	Proximates	Nitrogen, ammonium	260	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration

Cheese	Whey	Cheese	Proximates	Nitrogen, ammonium	17	%	Amelioration of lactic acid production from cheese whey using micro-aeration
Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Nitrogen, digestible	2.34	%	Chemical characterizatio n of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Nitrogen, digestible	0.77	%	Chemical characterizatio n of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Nitrogen, digestible	1.89	%	Chemical characterizatio n of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Nitrogen, digestible	1.91	%	Chemical characterizatio n of tomato pomace

Rice	Rice straw		Proximates	Nitrogen, immediately digestible	23.5	%	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Nitrogen, immediately digestible	39	%	Feedipedia
Wheat	Wheat straw		Proximates	Nitrogen, immediately digestible	38.4	%	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Nitrogen, immediately digestible	44	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Nitrogen, immediately digestible	12.7	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Nitrogen, immediately digestible	9.4	%	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Nitrogen, immediately digestible	42.8	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Nitrogen, immediately digestible	21.7	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Nitrogen, immediately digestible	11.1	%	Feedipedia

Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Nitrogen, immediately digestible	11.1	%	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Nitrogen, immediately digestible	73.3	%	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Nitrogen, immediately digestible	24.1	%	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Nitrogen, immediately digestible	41.2	%	Feedipedia
Wheat	Wheat bran		Proximates	Nitrogen, immediately digestible	28.8	%	Feedipedia
Wheat	Wheat grain		Proximates	Nitrogen, immediately digestible	19.5	%	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Nitrogen, immediately digestible	37.2	%	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Nitrogen, immediately digestible	18.6	%	Feedipedia
Cotton	Cottonseed hulls		Proximates	Nitrogen, immediately digestible	3	%	Feedipedia

Cotton	Cottonseed meal	High fibre, high oil	Proximates	Nitrogen, immediately digestible	16.7	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Nitrogen, immediately digestible	13.5	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Nitrogen, immediately digestible	35.7	%	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Nitrogen, immediately digestible	55.3	%	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Nitrogen, immediately digestible	32	%	Feedipedia
Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Proximates	Nitrogen, immediately digestible	46.4	%	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Nitrogen, immediately digestible	14.2	%	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Nitrogen, immediately digestible	13.8	%	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Nitrogen, immediately digestible	15.7	%	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Nitrogen, immediately digestible	27	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Nitrogen, immediately digestible	67.3	%	Feedipedia
Pumpkin	Pumpkin	Fruits, dried, Cucurbita sp.	Proximates	Nitrogen, immediately digestible	58.5	%	Feedipedia
Rape	Rape forage	Fresh	Proximates	Nitrogen, immediately digestible	39	%	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Nitrogen, immediately digestible	21.2	%	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Nitrogen, immediately digestible	18.3	%	Feedipedia
Soy	Soybean straw		Proximates	Nitrogen, immediately digestible	5.8	%	Feedipedia
Soy	Soybean hulls		Proximates	Nitrogen, immediately digestible	30.3	%	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Nitrogen, immediately digestible	15.3	%	Feedipedia

Soy	Soybean meal	High protein (non-dehulled)	Proximates	Nitrogen, immediately digestible	28.4	%	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Nitrogen, immediately digestible	24.5	%	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Nitrogen, immediately digestible	28.7	%	Feedipedia
Soy	Soybeans	Extruded	Proximates	Nitrogen, immediately digestible	12.6	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Nitrogen, immediately digestible	27.3	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Nitrogen, immediately digestible	38.2	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Nitrogen, immediately digestible	26.6	%	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Nitrogen, immediately digestible	91.1	%	Feedipedia

Sunflower	Sunflower seeds		Proximates	Nitrogen, immediately digestible	39.4	%	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Nitrogen, immediately digestible	58.5	%	Feedipedia
Coffee	Coffee hulls		Proximates	Nitrogen, immediately digestible	52.8	%	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Nitrogen, immediately digestible	10	%	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Nitrogen, immediately digestible	22.5	%	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Nitrogen, immediately digestible	6.7	%	Feedipedia
Tomatoes	Tomato plant	Fresh, whole plant	Proximates	Nitrogen, immediately digestible	15.9	%	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Nitrogen, immediately digestible	17.6	%	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Nitrogen, immediately digestible	48.5	%	Feedipedia

Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Nitrogen, immediately digestible	17.6	%	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Nitrogen, immediately digestible	32.7	%	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Nitrogen, immediately digestible	22.5	%	Feedipedia
Poultry	Feather meal		Proximates	Nitrogen, immediately digestible	15.8	%	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Nitrogen, immediately digestible	36.8	%	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Nitrogen, immediately digestible	20.1	%	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Nitrogen, immediately digestible	27.7	%	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Nitrogen, immediately digestible	28.2	%	Feedipedia

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Nitrogen, non protein	0.37	%	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Nitrogen, non protein	1.36	%	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Nitrogen, non protein	0.52	%	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Nitrogen, non protein	0.18	%	Chemical characterization of tomato pomace
Cheese	Whey	Cheese	Proximates	Nitrogen, organic	1300	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration

Beef	Solid cattle slaughterhouse wastes		Proximates	Nitrogen, organic	20	g/kg	Anaerobic co-digestion of solid slaughterhouse wastes with agro-residues: Synergistic and antagonistic interactions determined in batch digestion assays
Beef	Solid cattle slaughterhouse wastes		Proximates	Nitrogen, organic	0.83	g/L	Anaerobic co-digestion of solid slaughterhouse wastes with agro-residues: Synergistic and antagonistic interactions determined in batch digestion assays

Cheese	Whey	Cheese	Proximates	Nitrogen, organic	83	%	Amelioration of lactic acid production from cheese whey using micro-aeration
Rice	Rice straw		Proximates	Nitrogen, potentially digestible	55.1	%	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Nitrogen, potentially digestible	54	%	Feedipedia
Wheat	Wheat straw		Proximates	Nitrogen, potentially digestible	25.5	%	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Nitrogen, potentially digestible	54	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Nitrogen, potentially digestible	64.1	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Nitrogen, potentially digestible	57.9	%	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Nitrogen, potentially digestible	44.7	%	Feedipedia

Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Nitrogen, potentially digestible	62.1	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Nitrogen, potentially digestible	84.7	%	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Nitrogen, potentially digestible	84.7	%	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Nitrogen, potentially digestible	22.5	%	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Nitrogen, potentially digestible	71.6	%	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Nitrogen, potentially digestible	58.8	%	Feedipedia
Wheat	Wheat bran		Proximates	Nitrogen, potentially digestible	66.2	%	Feedipedia
Wheat	Wheat grain		Proximates	Nitrogen, potentially digestible	71.8	%	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Nitrogen, potentially digestible	36.4	%	Feedipedia

Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Nitrogen, potentially digestible	79.5	%	Feedipedia
Cotton	Cottonseed hulls		Proximates	Nitrogen, potentially digestible	40.5	%	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Nitrogen, potentially digestible	83.3	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Nitrogen, potentially digestible	82.9	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Nitrogen, potentially digestible	49.6	%	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Nitrogen, potentially digestible	44.7	%	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Nitrogen, potentially digestible	51.1	%	Feedipedia
Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Proximates	Nitrogen, potentially digestible	57.7	%	Feedipedia
Olive	Olive oil cake	Crude, with stones	Proximates	Nitrogen, potentially digestible	45.1	%	Feedipedia

Palm	Palm kernel meal	Mechanical extraction	Proximates	Nitrogen, potentially digestible	63.1	%	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Nitrogen, potentially digestible	82.5	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Nitrogen, potentially digestible	70.4	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Nitrogen, potentially digestible	32.7	%	Feedipedia
Pumpkin	Pumpkin	Fruits, dried, Cucurbita sp.	Proximates	Nitrogen, potentially digestible	33.9	%	Feedipedia
Rape	Rape forage	Fresh	Proximates	Nitrogen, potentially digestible	58	%	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Nitrogen, potentially digestible	65	%	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Nitrogen, potentially digestible	80.7	%	Feedipedia
Soy	Soybean straw		Proximates	Nitrogen, potentially digestible	62.3	%	Feedipedia

Soy	Soybean hulls		Proximates	Nitrogen, potentially digestible	66.5	%	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Nitrogen, potentially digestible	78.9	%	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Nitrogen, potentially digestible	63.6	%	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Nitrogen, potentially digestible	71.8	%	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Nitrogen, potentially digestible	61.7	%	Feedipedia
Soy	Soybeans	Extruded	Proximates	Nitrogen, potentially digestible	87.4	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Nitrogen, potentially digestible	60.3	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Nitrogen, potentially digestible	61.8	%	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Nitrogen, potentially digestible	35.6	%	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Nitrogen, potentially digestible	5.3	%	Feedipedia
Sunflower	Sunflower seeds		Proximates	Nitrogen, potentially digestible	34.2	%	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Nitrogen, potentially digestible	41.3	%	Feedipedia
Coffee	Coffee hulls		Proximates	Nitrogen, potentially digestible	22.4	%	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Nitrogen, potentially digestible	14.5	%	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Nitrogen, potentially digestible	22.4	%	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Nitrogen, potentially digestible	27.4	%	Feedipedia
Tomatoes	Tomato plant	Fresh, whole plant	Proximates	Nitrogen, potentially digestible	24.3	%	Feedipedia

Sugar beet	Sugar beet pulp		Proximates	Nitrogen, potentially digestible	81.1	%	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Nitrogen, potentially digestible	50.1	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Nitrogen, potentially digestible	81.1	%	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Nitrogen, potentially digestible	38	%	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Nitrogen, potentially digestible	44.1	%	Feedipedia
Poultry	Feather meal		Proximates	Nitrogen, potentially digestible	48.3	%	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Nitrogen, potentially digestible	40	%	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Nitrogen, potentially digestible	57.6	%	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Nitrogen, potentially digestible	44.4	%	Feedipedia

Poultry	Offal meal	Poultry	Proximates	Nitrogen, potentially digestible	47.1	%	Feedipedia
Apple	Apple pomace		Proximates	Nitrogen, soluble	0.86	g/kg	NOSHAN
Orange	Orange peel	Orange	Proximates	Nitrogen, soluble	0	g/kg	NOSHAN
Hop	Hops		Proximates	Nitrogen, soluble	11.37	g/kg	NOSHAN
Apple	Apple cake		Proximates	Nitrogen, soluble	1.2	g/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Nitrogen, soluble	15.83	g/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Nitrogen, soluble	6.04	g/kg	NOSHAN
Cabbage	Cabbage		Proximates	Nitrogen, soluble	4.1	g/kg	NOSHAN
Cheese	Cheese	Hard	Proximates	Nitrogen, soluble	7.57	g/kg	NOSHAN
Cheese	Cheese	Soft	Proximates	Nitrogen, soluble	1.43	g/kg	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Nitrogen, soluble	2.72	g/kg	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Nitrogen, soluble	2.75	g/kg	NOSHAN

Grape	Grape pomace		Proximates	Nitrogen, soluble	3.44	g/kg	NOSHAN
Barley	Malted barley germs		Proximates	Nitrogen, soluble	7.24	g/kg	NOSHAN
Mushrooms	Mushrooms		Proximates	Nitrogen, soluble	2.7	g/kg	NOSHAN
Olive	Olive pomace		Proximates	Nitrogen, soluble	1.38	g/kg	NOSHAN
Onion	Onion hulls		Proximates	Nitrogen, soluble	2.78	g/kg	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Nitrogen, soluble	0	g/kg	NOSHAN
Potato	Potato	Selected	Proximates	Nitrogen, soluble	2.77	g/kg	NOSHAN
Potato	Potato skin		Proximates	Nitrogen, soluble	3.83	g/kg	NOSHAN
Rape	Rapeseed press cake		Proximates	Nitrogen, soluble	6.25	g/kg	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Nitrogen, soluble	3.1	g/kg	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Nitrogen, soluble	1.03	g/kg	NOSHAN
Tomatoes	Tomato skin		Proximates	Nitrogen, soluble	2.39	g/kg	NOSHAN
Apple	Apple	Whole	Proximates	Nitrogen, soluble	1.03	g/kg	NOSHAN
Pears	Pear	Whole	Proximates	Nitrogen, soluble	0.69	g/kg	NOSHAN

Yoghurt	Yoghurt		Proximates	Nitrogen, soluble	1.72	g/kg	NOSHAN
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Nitrogen, total	0.02	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Nuts, unspecified	Nut shells	Cashew	Proximates	Nitrogen, total	0.36	g/100g	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shells	Cashew, de-oiled	Proximates	Nitrogen, total	0.36	g/100g	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Apple	Apple cake		Proximates	Nitrogen, total	0.63	g/100g	Cropgen database
Fruit and vegetables, unspecified	Market waste, fruit and vegetables	Mesophilic	Proximates	Nitrogen, total	4	g/100g	Cropgen database
Fruit and vegetables, unspecified	Market waste, fruit and vegetables	Thermophilic	Proximates	Nitrogen, total	4	g/100g	Cropgen database
Pineapple	Pineapple waste		Proximates	Nitrogen, total	0.72	g/100g	Cropgen database

Olive	Olive husk		Proximates	Nitrogen, total	4.48	g/100g	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Proximates	Nitrogen, total	0.8	g/100g	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Proximates	Nitrogen, total	1.36	g/100g	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Proximates	Nitrogen, total	0.45	g/100g	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura

Grape	Grape waste		Proximates	Nitrogen, total	2.37	g/100g	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Coconut	Char from coconut shell	Char produced at 750°C	Proximates	Nitrogen, total	1.38	g/100g	ECN Phyllis 2
Grape	Char from grape residue	Residue from wine production, pyrolysis in packed bed (280-530°C deg C radial profile)	Proximates	Nitrogen, total	2.05	g/100g	ECN Phyllis 2
Grapefruit	Grapefruit skin char	GrapefuitChar produced at 700°C from grapefruit skin	Proximates	Nitrogen, total	1.45	g/100g	ECN Phyllis 2
Orange	Orange skin char	OrangeCarbonization under N2 for 2 hours at 700°C	Proximates	Nitrogen, total	1.08	g/100g	ECN Phyllis 2

Poultry	Pyrolysis char from skimmings poultry processing	600°C pyrolysis	Proximates	Nitrogen, total	6.94	g/100g	ECN Phyllis 2
Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Proximates	Nitrogen, total	0.92	g/100g	ECN Phyllis 2

Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Proximates	Nitrogen, total	0.55	g/100g	ECN Phyllis 2
Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Proximates	Nitrogen, total	0.76	g/100g	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 400/60/0. Combustion temperature: 400°C, 60 minutes, 0% oxygen	Proximates	Nitrogen, total	1.16	g/100g	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Proximates	Nitrogen, total	1.11	g/100g	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Proximates	Nitrogen, total	1.12	g/100g	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Proximates	Nitrogen, total	0.77	g/100g	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Proximates	Nitrogen, total	0.89	g/100g	ECN Phyllis 2
Olive	Char from olive husks	Pyrolysis in packed bed (280-530°C radial profile)	Proximates	Nitrogen, total	0.98	g/100g	ECN Phyllis 2
Olive	Char from olive husks		Proximates	Nitrogen, total	2.4	g/100g	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 623 K; S-Co2 = 305 m2/g	Proximates	Nitrogen, total	0.39	g/100g	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at 873 K; S-N2 = 85 m2/g, S-CO2 = 548 m2/g	Proximates	Nitrogen, total	0.4	g/100g	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 1123 K; S-CO2 = 737 m2/g	Proximates	Nitrogen, total	0.76	g/100g	ECN Phyllis 2

Peanuts	Char from peanut shells	Char produced at 350°C	Proximates	Nitrogen, total	1.17	g/100g	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 600°C	Proximates	Nitrogen, total	1.15	g/100g	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 850°C	Proximates	Nitrogen, total	0.96	g/100g	ECN Phyllis 2
Rice	Rice straw char	Char from pyrolysis at 490°C	Proximates	Nitrogen, total	0.35	g/100g	ECN Phyllis 2
Straw	Straw		Proximates	Nitrogen, total	0.49	g/100g	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Proximates	Nitrogen, total	1.2	g/100g	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Proximates	Nitrogen, total	0.8	g/100g	ECN Phyllis 2
Wheat	Char from wheat straw	Char from fluid bed gasifier	Proximates	Nitrogen, total	0.85	g/100g	ECN Phyllis 2
Wheat	Char from wheat straw	Pyrolysis in packed bed (280-530°C radial profile)	Proximates	Nitrogen, total	0.7	g/100g	ECN Phyllis 2
Wheat	Wheat straw char		Proximates	Nitrogen, total	0.6	g/100g	ECN Phyllis 2
Sugar cane	Sugar cane trash	Ground pellets	Proximates	Nitrogen, total	0.56	g/100g	ECN Phyllis 2

Sugar beet	Sugar beet		Proximates	Nitrogen, total	1.84	g/100g	ECN Phyllis 2
Sugar cane	Sugar cane leaves	Higher heating value given as 16.000-17600 kJ/kg; in Biomass and Bioenergy 13 (1997) 141-146 it is given as 17.430 kJ/kg. The higher value may apply to dry ash-free material.	Proximates	Nitrogen, total	0.12	g/100g	ECN Phyllis 2
Bean	Bean plant		Proximates	Nitrogen, total	0.52	g/100g	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Proximates	Nitrogen, total	0.65	g/100g	ECN Phyllis 2
Courgette	Courgette plant		Proximates	Nitrogen, total	0.33	g/100g	ECN Phyllis 2
Cucumber	Cucumber plant		Proximates	Nitrogen, total	0.32	g/100g	ECN Phyllis 2

Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Proximates	Nitrogen, total	0.38	g/100g	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Proximates	Nitrogen, total	0.63	g/100g	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Proximates	Nitrogen, total	0.24	g/100g	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Proximates	Nitrogen, total	0.33	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Proximates	Nitrogen, total	1.06	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Proximates	Nitrogen, total	0.96	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Proximates	Nitrogen, total	0.68	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Proximates	Nitrogen, total	1.16	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Proximates	Nitrogen, total	0.17	g/100g	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Proximates	Nitrogen, total	1.1	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Proximates	Nitrogen, total	0.22	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Proximates	Nitrogen, total	1.01	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Proximates	Nitrogen, total	1.06	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Proximates	Nitrogen, total	1.15	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Proximates	Nitrogen, total	1.45	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Proximates	Nitrogen, total	0.65	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Proximates	Nitrogen, total	0.71	g/100g	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Proximates	Nitrogen, total	0.74	g/100g	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Proximates	Nitrogen, total	2.62	g/100g	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Proximates	Nitrogen, total	2.53	g/100g	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Proximates	Nitrogen, total	2.81	g/100g	ECN Phyllis 2
Cacao/cocoa	Cacao shells	Report JOU2-CT93-0397; data from K. Lassing, E. Olsson and L. Waldheim, TPS	Proximates	Nitrogen, total	3.13	g/100g	ECN Phyllis 2
Cacao/cocoa	Cacao hulls		Proximates	Nitrogen, total	2.98	g/100g	ECN Phyllis 2
Coconut	Coconut shell	Coconuts shells from Madal, Mozambique	Proximates	Nitrogen, total	0.28	g/100g	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Nitrogen, total	0	g/100g	ECN Phyllis 2
Coconut	Coconut shell	Charcoal yield 41.4% at 1 MPa, fixed-C yield 30.1%	Proximates	Nitrogen, total	0.23	g/100g	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Nitrogen, total	0.14	g/100g	ECN Phyllis 2
Coconut	Coconut fibre	Coir	Proximates	Nitrogen, total	0.5	g/100g	ECN Phyllis 2

Coconut	Coconut fibre dust	Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Proximates	Nitrogen, total	0.45	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 4.2% (obtained with extraction with acetone/water)	Proximates	Nitrogen, total	1.28	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 1, samples from Trabzon, Turkey	Proximates	Nitrogen, total	0.09	g/100g	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 2, samples from Trabzon, Turkey	Proximates	Nitrogen, total	0.29	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 3, samples from Trabzon, Turkey	Proximates	Nitrogen, total	0.19	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 4, samples from Trabzon, Turkey	Proximates	Nitrogen, total	0.19	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Proximates	Nitrogen, total	1.6	g/100g	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Proximates	Nitrogen, total	1.36	g/100g	ECN Phyllis 2

Nuts, unspecified	Nut seedcoat	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 19.6% (obtained with extraction with alcohol/benzene)	Proximates	Nitrogen, total	1.28	g/100g	ECN Phyllis 2
Olive	Olive		Proximates	Nitrogen, total	0.71	g/100g	ECN Phyllis 2
Olive	Olive		Proximates	Nitrogen, total	0.44	g/100g	ECN Phyllis 2
Olive	Olive		Proximates	Nitrogen, total	0.47	g/100g	ECN Phyllis 2
Olive	Olive cake		Proximates	Nitrogen, total	1.52	g/100g	ECN Phyllis 2
Olive	Olive husk	Biochemical composition on extractive free basis. Concentration of extractives: 8.1% (obtained with extraction with alcohol/benzene)	Proximates	Nitrogen, total	1.54	g/100g	ECN Phyllis 2

Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Proximates	Nitrogen, total	0.5	g/100g	ECN Phyllis 2
Olive	Olive husk	Ash type: 815°C	Proximates	Nitrogen, total	1.16	g/100g	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Proximates	Nitrogen, total	0.42	g/100g	ECN Phyllis 2
Olive	Olive pits		Proximates	Nitrogen, total	0.36	g/100g	ECN Phyllis 2
Olive	Olive pits		Proximates	Nitrogen, total	2.21	g/100g	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Proximates	Nitrogen, total	0.95	g/100g	ECN Phyllis 2
Olive	Olive residue	Oily refuse from olive processing	Proximates	Nitrogen, total	1.5	g/100g	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Proximates	Nitrogen, total	1.37	g/100g	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Proximates	Nitrogen, total	1.29	g/100g	ECN Phyllis 2
Olive	Olive residue		Proximates	Nitrogen, total	1.39	g/100g	ECN Phyllis 2
Olive	Olive residue		Proximates	Nitrogen, total	1.09	g/100g	ECN Phyllis 2
Olive	Olive waste	Country: Spain	Proximates	Nitrogen, total	1.55	g/100g	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Proximates	Nitrogen, total	1.2	g/100g	ECN Phyllis 2
Olive	Olive husk	Exhausted	Proximates	Nitrogen, total	3.51	g/100g	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Proximates	Nitrogen, total	0.91	g/100g	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Proximates	Nitrogen, total	1	g/100g	ECN Phyllis 2
Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Proximates	Nitrogen, total	1.29	g/100g	ECN Phyllis 2

Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Proximates	Nitrogen, total	1.75	g/100g	ECN Phyllis 2
Olive	Orujillo	Wood matter from pressed oil stone	Proximates	Nitrogen, total	0.74	g/100g	ECN Phyllis 2
Cherry	Cherry pits		Proximates	Nitrogen, total	0.28	g/100g	ECN Phyllis 2
Coffee	Coffee husk		Proximates	Nitrogen, total	1.36	g/100g	ECN Phyllis 2
Coffee	Coffee husk		Proximates	Nitrogen, total	0.72	g/100g	ECN Phyllis 2
Peach	Peach pits		Proximates	Nitrogen, total	0.32	g/100g	ECN Phyllis 2
Peach	Peach pits		Proximates	Nitrogen, total	0.48	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Proximates	Nitrogen, total	0.63	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Proximates	Nitrogen, total	0.64	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Proximates	Nitrogen, total	0.56	g/100g	ECN Phyllis 2
Prunes	Prune pits		Proximates	Nitrogen, total	0.56	g/100g	ECN Phyllis 2
Prunes	Prune pits		Proximates	Nitrogen, total	0.32	g/100g	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Nitrogen, total	2.74	g/100g	ECN Phyllis 2

Babassu	Babassu husks		Proximates	Nitrogen, total	0.26	g/100g	ECN Phyllis 2
Coffee	Coffee husk	Parchment	Proximates	Nitrogen, total	0.53	g/100g	ECN Phyllis 2
Corn	Corn bran		Proximates	Nitrogen, total	1.76	g/100g	ECN Phyllis 2
Cotton	Cottonseed hulls		Proximates	Nitrogen, total	0.66	g/100g	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Proximates	Nitrogen, total	0.88	g/100g	ECN Phyllis 2
Cotton	Cottonseed	Black	Proximates	Nitrogen, total	3.68	g/100g	ECN Phyllis 2
Grape	Grape seeds		Proximates	Nitrogen, total	1.35	g/100g	ECN Phyllis 2
Lemon	Lemon pellets	Lemon. Ash type: 815°C	Proximates	Nitrogen, total	0.79	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Proximates	Nitrogen, total	0.36	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia	Proximates	Nitrogen, total	0.36	g/100g	ECN Phyllis 2
Millet	Millet husk		Proximates	Nitrogen, total	1.09	g/100g	ECN Phyllis 2
Mustard	Mustard husk		Proximates	Nitrogen, total	0.36	g/100g	ECN Phyllis 2

Grape	Grape marc	Grape marc from Gonzlez-Byass	Proximates	Nitrogen, total	16.7	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc	Grape marc from Movialsa	Proximates	Nitrogen, total	14.3	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape vine shoot		Proximates	Nitrogen, total	7.2	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	White	Proximates	Nitrogen, total	32.5	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Red	Proximates	Nitrogen, total	23.9	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Sherry	Proximates	Nitrogen, total	22.6	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape marc and lees		Proximates	Nitrogen, total	15.4	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Olive	Olive pomace		Proximates	Nitrogen, total	16.11	g/kg DM	NOSHAN
Abattoir wastes, unspecified	Slaughterhouse wastewater		Proximates	Nitrogen, total	250-700	mg/l	Anaerobic treatment of slaughterhouse waste and wastewater
Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Proximates	Nitrogen, total	2888.89	mg/kg	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Proximates	Nitrogen, total	2888.89	mg/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK
Cheese	Whey	Cheese	Proximates	Nitrogen, total Kjeldahl	1560	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration
Sugar by-products, unspecified	Wastewater	1h settled	Proximates	Nitrogen, total Kjeldahl	10	mg/l	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters
Sugar beet	Pressed beet-pulp		Proximates	Nitrogen, total Kjeldahl	7.28	% total solids	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Luton, UK	Proximates	Nitrogen, total Kjeldahl	7.39	g/kg	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Hackney, UK	Proximates	Nitrogen, total Kjeldahl	8.06	g/kg	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Ludlow, UK	Proximates	Nitrogen, total Kjeldahl	8.12	g/kg	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Eastleigh, UK	Proximates	Nitrogen, total Kjeldahl	7.53	g/kg	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Forssa, Finland	Proximates	Nitrogen, total Kjeldahl	6.45	g/kg	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Treviso, Italy	Proximates	Nitrogen, total Kjeldahl	7.02	g/kg	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Raw food waste obtained from collection rounds in Lisbon, Portugal	Proximates	Nitrogen, total Kjeldahl	5.1	g/kg	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste (to digester) obtained from collection rounds in Lisbon, Portugal	Proximates	Nitrogen, total Kjeldahl	4.37	g/kg	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Domestic food waste from Ludlow, UK	Proximates	Nitrogen, total Kjeldahl	7.38	g/kg	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment
Food, unspecified	Food leftovers	Autoclaved (160C, 6.2 bars) domestic food waste from Ludlow, UK	Proximates	Nitrogen, total Kjeldahl	6.80	g/kg	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment
Fish, unspecified	Fish	Raw, fresh	Waste compounds	Nitrogen, total volatile	<25	mg/100g	Alternate protein sources for salmon and trout diets

Fish, unspecified	Fish	Raw, moderately fresh	Waste compounds	Nitrogen, total volatile	<60	mg/100g	Alternate protein sources for salmon and trout diets
Fish, unspecified	Fish	Raw, stale	Waste compounds	Nitrogen, total volatile	<140	mg/100g	Alternate protein sources for salmon and trout diets
Apple	Apple pomace	Wet	Proximates	Nitrogen-free extract	13.9	%	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Dried	Proximates	Nitrogen-free extract	57-63.5	%	Handbook of poultry feed from waste: processing and use
Apple	Pectin	Wet, apple pulp	Proximates	Nitrogen-free extract	7.9	%	Handbook of poultry feed from waste: processing and use

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Nitrogen-free extract	2.13	%	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Nitrogen-free extract	1.75	%	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Nitrogen-free extract	3.17	%	Chemical characterization of tomato pomace
Poultry	Poultry heads and feet	Inedbile fattened chicken slaughtering by-products	Proximates	Nitrogen-free extract	5.04	%	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Nitrogen-free extract	2.67	%	Chemical characterization of tomato pomace

Beef	Rumen content	Abattoir waste	Proximates	Nitrogen-free extract	37.14	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Nitrogen-free extract	14.3	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Grapefruit	Grapefruit pulp silage	Grapefruit. Source: Israel	Proximates	Nitrogen-free extract	73.5	% DM	Citrus by-products for animal feed

Orange	Orange pulp silage	Source: Israel	Proximates	Nitrogen-free extract	70.3	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus pulp, dried	Source: Trinidad	Proximates	Nitrogen-free extract	70.1	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus pulp, dried	Source: United States	Proximates	Nitrogen-free extract	71.1	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus molasses	Source: United States	Proximates	Nitrogen-free extract	87.3	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus seed meal	Source: United States	Proximates	Nitrogen-free extract	37.5	% DM	Citrus by-products for animal feed
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Nitrogen-free extract	29.34	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Nitrogen-free extract	29.66	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Nitrogen-free extract	29.88	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Apple	Apple pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	14.04	Extraction	NOSHAN
Orange	Orange peel	Orange	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	125.78	Extraction	NOSHAN

Hop	Hops		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	8.56	Extraction	NOSHAN
Apple	Apple cake		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	13.41	Extraction	NOSHAN
Cabbage	Cabbage		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	29.74	Extraction	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	25.46	Extraction	NOSHAN
Grape	Grape pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	10.96	Extraction	NOSHAN
Olive	Olive pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	13.81	Extraction	NOSHAN

Onion	Onion hulls		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	23.45	Extraction	NOSHAN
Rape	Rapeseed press cake		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	24.82	Extraction	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	22.64	Extraction	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	28.14	Extraction	NOSHAN
Tomatoes	Tomato skin		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	14.21	Extraction	NOSHAN
Apple	Apple	Whole	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	10.36	Extraction	NOSHAN

Pears	Pear	Whole	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	9.16	Extraction	NOSHAN
Apple	Apple pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	559.44	UV	NOSHAN
Orange	Orange peel	Orange	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	1099.16	UV	NOSHAN
Hop	Hops		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	735.64	UV	NOSHAN
Apple	Apple cake		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	408.18	UV	NOSHAN
Cabbage	Cabbage		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	933.92	UV	NOSHAN

Cucumber	Cucumber	Sour	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	602.4	UV	NOSHAN
Grape	Grape pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	894.44	UV	NOSHAN
Olive	Olive pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	292.71	UV	NOSHAN
Onion	Onion hulls		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	1146.73	UV	NOSHAN
Rape	Rapeseed press cake		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	85.46	UV	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	643.1	UV	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	670.91	UV	NOSHAN
Tomatoes	Tomato skin		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	783.94	UV	NOSHAN
Apple	Apple	Whole	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	488	UV	NOSHAN
Pears	Pear	Whole	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	1008.94	UV	NOSHAN
Apple	Apple pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	227	GC/MS	NOSHAN
Orange	Orange peel	Orange	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	202	GC/MS	NOSHAN

Hop	Hops		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	128	GC/MS	NOSHAN
Apple	Apple cake		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	150	GC/MS	NOSHAN
Cabbage	Cabbage		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	173	GC/MS	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	86	GC/MS	NOSHAN
Grape	Grape pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	36	GC/MS	NOSHAN
Olive	Olive pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	306	GC/MS	NOSHAN

Onion	Onion hulls		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	89	GC/MS	NOSHAN
Rape	Rapeseed press cake		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	159	GC/MS	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	267	GC/MS	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	385	GC/MS	NOSHAN
Tomatoes	Tomato skin		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	85	GC/MS	NOSHAN
Apple	Apple	Whole	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	198	GC/MS	NOSHAN

Pears	Pear	Whole	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	130	GC/MS	NOSHAN
Apple	Apple pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	36.21	NMR	NOSHAN
Orange	Orange peel	Orange	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	24.72	NMR	NOSHAN
Hop	Hops		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	13.73	NMR	NOSHAN
Apple	Apple cake		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	39.91	NMR	NOSHAN
Cabbage	Cabbage		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	18.98	NMR	NOSHAN

Cucumber	Cucumber	Sour	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	26.46	NMR	NOSHAN
Grape	Grape pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	5.21	NMR	NOSHAN
Olive	Olive pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	10.34	NMR	NOSHAN
Onion	Onion hulls		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	19.06	NMR	NOSHAN
Rape	Rapeseed press cake		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	24.9	NMR	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	12.19	NMR	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	29.08	NMR	NOSHAN
Tomatoes	Tomato skin		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	21.55	NMR	NOSHAN
Apple	Apple	Whole	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	46.4	NMR	NOSHAN
Pears	Pear	Whole	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	25	NMR	NOSHAN
Apple	Apple pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	2.85	NMR	NOSHAN
Orange	Orange peel	Orange	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	1.49	NMR	NOSHAN

Hop	Hops		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	7.22	NMR	NOSHAN
Apple	Apple cake		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	5.58	NMR	NOSHAN
Cabbage	Cabbage		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	3.68	NMR	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	3.5	NMR	NOSHAN
Grape	Grape pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	0.43	NMR	NOSHAN
Olive	Olive pomace		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	7.79	NMR	NOSHAN

Onion	Onion hulls		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	2.01	NMR	NOSHAN
Rape	Rapeseed press cake		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	12.55	NMR	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	3.16	NMR	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	18.02	NMR	NOSHAN
Tomatoes	Tomato skin		Proximates	Non covalent-bound pectin fraction (CDTA fraction)	2.84	NMR	NOSHAN
Apple	Apple	Whole	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	7.4	NMR	NOSHAN

Pears	Pear	Whole	Proximates	Non covalent-bound pectin fraction (CDTA fraction)	4.6	NMR	NOSHAN
Canola	Canola meal	Average of analysed values	Proximates	Non-phytate P (NPP)	3.8	g/kg dm	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Lemon	Sweet lemon pulp	Citrus limetta	Waste compounds	Nutritive index value	90.9	N/A	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Waste compounds	Nutritive index value	79.6	N/A	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace		Undesirable components	Ochratoxin	<0.1	µg/kg	NOSHAN
Orange	Orange peel	Orange	Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Cheese	Whey	Milk	Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Hop	Hops		Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN

Apple	Apple cake		Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Ochratoxin	0.44	µg/kg	NOSHAN
Cabbage	Cabbage		Undesirable components	Ochratoxin	4.13	µg/kg	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Cheese	Cheese	Soft and hard	Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Cucumber	Cucumber	Sour	Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Grape	Grape pomace		Undesirable components	Ochratoxin	6.29	µg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Ochratoxin	5.37	µg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Olive	Olive pomace		Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Onion	Onion hulls		Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Onion	Onion	Slices, fresh	Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN

Potato	Potato	Selected	Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Potato	Potato skin		Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Rape	Rapeseed press cake		Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	Ochratoxin	1.67	µg/kg	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Tomatoes	Tomato skin		Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Apple	Apple	Whole	Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Pears	Pear	Whole	Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Ochratoxin	<0.05	µg/kg	NOSHAN
Olive	Olive stones		Inorganics	Odiff	41.9	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive stones	Carbonization solid product	Inorganics	Odiff	6.4	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents

Olive	Olive stones	Vacuum carbonization solid product	Inorganics	Odiff	5.7	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp		Inorganics	Odiff	37.4	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp	Carbonization solid product	Inorganics	Odiff	5.5	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp	Vacuum carbonization solid product	Inorganics	Odiff	4.6	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Rape	Rapeseed press cake		Proximates	Oleosin	17	%	NOSHAN
Canola	Canola meal	Average of analysed values	Proximates	Oligosaccharide	29.1	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities

Citrus, unspecified	Citrus pulp		Organic acids	Organic acids	9	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Wheat	Wheat middlings		Organic acids	Organic acids	4.6	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Wheat	Wheat	Ground	Organic acids	Organic acids	0	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Sugar beet	Sugar beet pulp		Organic acids	Organic acids	0.4	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Nuts, unspecified	Nut hulls	Almond, WH	Organic acids	Organic acids	8.2	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Cotton	Cottonseed	Whole, FL 5/99	Organic acids	Organic acids	5.6	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Citrus, unspecified	Citrus pulp, dried		Organic acids	Organic acids	90	g/kg DM	Citrus by-products as ruminant feeds: A review
Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Organic carbon	15.2	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Organic carbon	24.1	% DM	Composted slaughterhouse waste as organic fertilizer

Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Organic carbon	23.3	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Organic carbon	25.3	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Inorganics	Organic carbon	33.9	% DM	Composted slaughterhouse waste as organic fertilizer
Olive	Olive tree pruning	Liquid fraction derived from organosolv pretreatment	Inorganics	Organic matter	4.31	%	Biorefining of olive tree (Olea europea) pruning
Apple	Apple pomace	Malus domestica	Inorganics	Organic matter	97.4	% DM	Waste to worth: fruit wastes and by-products as animal feed

Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Organic matter	95.5	% DM	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lucopersicum	Inorganics	Organic matter	94-95.2	% DM	Vegetable waste as animal feed paper; Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Organic matter	92.7	% DM	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Organic matter	78.9	% DM	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Inorganics	Organic matter	86.4	% DM	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Inorganics	Organic matter	84.2	% DM	Utilization of fruit and vegetable wastes, FAO

Carrot	Carrot	Daucus carota	Inorganics	Organic matter	91.8	% DM	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Inorganics	Organic matter	95.2	% DM	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Inorganics	Organic matter	95.5	% DM	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Inorganics	Organic matter	97.4	% DM	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Inorganics	Organic matter	92.1	% DM	Utilization of fruit and vegetable wastes, FAO
Pineapple	Pineapple bran	Ananas comosus	Inorganics	Organic matter	96.5	% DM	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Organic matter	94	% DM	Utilization of fruit and vegetable wastes, FAO

Banana	Banana peel	Musa acuminata	Inorganics	Organic matter	88.9	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Inorganics	Organic matter	85.1	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Inorganics	Organic matter	92.1	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Inorganics	Organic matter	92.5	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Organic matter	91.8	% DM	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Inorganics	Organic matter	92.5	% DM	Vegetable waste as animal feed paper
Cucumber	Cucumber	Cucumis sativus	Inorganics	Organic matter	88.7	% DM	Vegetable waste as animal feed paper

Cucumber	Cucumber peel	Cucumis sativus	Inorganics	Organic matter	90.3	% DM	Vegetable waste as animal feed paper
Food, unspecified	Grocery by-product waste	Fruits, vegetables and bakery items from retail grocery stores	Inorganics	Organic matter	92.7	% DM	Vegetable waste as animal feed paper
Potato	Potato	Solanum tuberosum	Inorganics	Organic matter	95.2	% DM	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Inorganics	Organic matter	88.9-92.8	% DM	Vegetable waste as animal feed paper
Pumpkin	Pumpkin oil meal	Cucurbita pepo	Inorganics	Organic matter	91.5	% DM	Vegetable waste as animal feed paper
Tomatoes	Tomato	L.esculentum	Inorganics	Organic matter	89.9-92.3	% DM	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Organic matter	94-95.2	% DM	Vegetable waste as animal feed paper

Cabbage	Cabbage leaves	Brassica oleracea	Inorganics	Organic matter	84.2	% DM	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Inorganics	Organic matter	86.4	% DM	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Organic matter	78.9	% DM	Vegetable waste as animal feed paper
Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Organic matter	26.3	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Organic matter	41.7	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Organic matter	40.3	% DM	Composted slaughterhouse waste as organic fertilizer

Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Organic matter	43.8	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Inorganics	Organic matter	58.6	% DM	Composted slaughterhouse waste as organic fertilizer
Cabbage	Cabbage meal		Inorganics	Organic matter	835	g/kg dry matter	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Olive	Olive cake, dried	Dried, two-stage dried	Inorganics	Organic matter	850	g/kg dry matter	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Inorganics	Organic matter	838	g/kg dry matter	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Citrus, unspecified	Citrus pulp silage		Inorganics	Organic matter	945	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange	Fresh, whole	Inorganics	Organic matter	956	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus meal, dried		Inorganics	Organic matter	931	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Organic matter	928	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Organic matter	934	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Organic matter	921	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Organic matter	962	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Organic matter	937	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange peel	Fresh	Inorganics	Organic matter	975	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange peel silage		Inorganics	Organic matter	954	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Fresh	Inorganics	Organic matter	965	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Organic matter	909	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp	Fresh	Inorganics	Organic matter	962	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Inorganics	Organic matter	967	g/kg DM	Citrus by-products as ruminant feeds: A review

Lemon	Lemon, dried	Whole	Inorganics	Organic matter	895	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Inorganics	Organic matter	948	g/kg DM	Citrus by-products as ruminant feeds: A review
Nuts, unspecified	Nut hulls	Almond	Inorganics	Organic matter	928	g/kg dry matter	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Cotton	Cottonseed	Cracked Pima	Inorganics	Organic matter	953	g/kg dry matter	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Canola	Canola meal	Pellets (380g/kg CP, solvent)	Inorganics	Organic matter	924	g/kg dry matter	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Distillers grain	Distillers grain	High CP (corn with solubles)	Inorganics	Organic matter	978	g/kg dry matter	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Wheat	Wheat	Silage	Inorganics	Organic matter	881	g/kg dry matter	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Citrus, unspecified	Citrus pulp		Inorganics	Organic matter	954	g/kg dry matter	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Potato	Potato	Tubers (whole)	Inorganics	Organic matter	955	g/kg dry matter	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Orange	Bergamot peel		Inorganics	Organic matter	957	g/kg DM	Citrus by-products as ruminant feeds: A review

Grapefruit	Grapefruit pulp	Fresh	Inorganics	Organic matter	962	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Mandarin, fresh	Inorganics	Organic matter	960	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Organic matter	935	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried	Ammoniated	Inorganics	Organic matter	947	g/kg dry matter	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Organic matter	926	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Inorganics	Organic matter	940	g/kg DM	Citrus by-products as ruminant feeds: A review

Lemon	Lemon pulp, dried		Inorganics	Organic matter	943	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Organic matter	958	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Inorganics	Organic matter	937	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp	Wet	Inorganics	Organic matter	923	g/kg dry matter	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus seed meal	Mechanical extract	Inorganics	Organic matter	932	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses	Ammoniated	Inorganics	Organic matter	923	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp		Inorganics	Organic matter	923	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Organic matter	930	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp silage		Inorganics	Organic matter	943	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Organic matter	934	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp		Inorganics	Organic matter	963	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange		Inorganics	Organic matter	956	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp	Wet	Inorganics	Organic matter	962	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange by-product, dried		Inorganics	Organic matter	964	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Inorganics	Organic matter	962	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp silage		Inorganics	Organic matter	947	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Tangerine	Inorganics	Organic matter	950	g/kg DM	Citrus by-products as ruminant feeds: A review
Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Organic matter	92.7	% DM basis	Utilization of fruit and vegetable wastes, FAO

Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Organic matter	78.9	% DM basis	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace/marc	Namily vitaceae	Inorganics	Organic matter	92.1-93.8	% DM basis	Fruit waste as feed paper
Grape	Grape vine shoot	Vitis vinifera	Inorganics	Organic matter	96.2	% DM basis	Fruit waste as feed paper
Apple	Apple waste	Processing waste: filtration cake, pulp	Inorganics	Organic matter	900	g/kg DM	Online European Feedstock Atlas basis version
Apple	Apple pomace	Fresh	Inorganics	Organic matter	975	g/kg DM	Online European Feedstock Atlas basis version
Apple	Apple pomace	Malus domestica	Inorganics	Organic matter	97.4	g/kg DM	Fruit waste as feed paper
Apple	Apple pomace	From juice making	Inorganics	Organic matter	974.8	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making

Apple	Apple pomace	From puree making	Inorganics	Organic matter	962.2	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Grape	Grape marc	Fresh	Inorganics	Organic matter	744	g/kg DM	Online European Feedstock Atlas basis version
Wheat	Wheat middlings		Inorganics	Organic matter	952	g/kg DM	Online European Feedstock Atlas basis version
Grape	Grape pomace	Skin and seeds, white grape	Inorganics	Organic matter	923	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants

Grape	Grape pomace	Skin and seeds, red grape	Inorganics	Organic matter	935	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape marc	Grape marc from Gonzlez-Byass	Inorganics	Organic matter	888	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc	Grape marc from Movialsa	Inorganics	Organic matter	827	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape vine shoot		Inorganics	Organic matter	885	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	White	Inorganics	Organic matter	790	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Red	Inorganics	Organic matter	799	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	Sherry	Inorganics	Organic matter	696	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc and lees		Inorganics	Organic matter	859	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape seeds	White, Italian	Inorganics	Organic matter	962	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Red, Italian	Inorganics	Organic matter	961	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Californian	Inorganics	Organic matter	942	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Not ensiled	Inorganics	Organic matter	955	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Ensiled for 45 days	Inorganics	Organic matter	955	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	White, Italian	Inorganics	Organic matter	934	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Red, Italian	Inorganics	Organic matter	920	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Californian	Inorganics	Organic matter	863	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Not ensiled	Inorganics	Organic matter	908	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Ensiled for 45 days	Inorganics	Organic matter	904	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Barley	Barley grains		Inorganics	Organic matter	962	g/kg DM	Online European Feedstock Atlas basis version
Barley	Barley, total plants silage		Inorganics	Organic matter	926	g/kg DM	Online European Feedstock Atlas basis version
Barley	Barley	Whole plant, fresh	Inorganics	Organic matter	916	g/kg DM	Online European Feedstock Atlas basis version

Wheat	Wheat grain		Inorganics	Organic matter	979	g/kg DM	Online European Feedstock Atlas basis version
Wheat	Wheat	Total plants silage	Inorganics	Organic matter	923	g/kg DM	Online European Feedstock Atlas basis version
Wheat	Wheat	Whole plant, fresh	Inorganics	Organic matter	926	g/kg DM	Online European Feedstock Atlas basis version
Rape	Rapeseed grains		Inorganics	Organic matter	926	g/kg DM	Online European Feedstock Atlas basis version
Rape	Rapeseed	Total plants silage	Inorganics	Organic matter	864	g/kg DM	Online European Feedstock Atlas basis version
Rape	Rapeseed	Whole plant, fresh	Inorganics	Organic matter	866	g/kg DM	Online European Feedstock Atlas basis version

Sunflower	Sunflower seeds		Inorganics	Organic matter	961	g/kg DM	Online European Feedstock Atlas basis version
Sunflower	Sunflower	Total plants silage	Inorganics	Organic matter	865	g/kg DM	Online European Feedstock Atlas basis version
Sunflower	Sunflower	Whole plant, fresh	Inorganics	Organic matter	851	g/kg DM	Online European Feedstock Atlas basis version
Potato	Potato	Fresh	Inorganics	Organic matter	937	g/kg DM	Online European Feedstock Atlas basis version
Potato	Potato	Silage	Inorganics	Organic matter	932	g/kg DM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet	Beet only, fresh	Inorganics	Organic matter	927	g/kg DM	Online European Feedstock Atlas basis version

Sugar beet	Sugar beet	Total plants silage	Inorganics	Organic matter	890	g/kg DM	Online European Feedstock Atlas basis version
Pineapple	Pineapple		Inorganics	Organic matter	973	g/kg DM	Online European Feedstock Atlas basis version
Bakery	Bakery residues		Inorganics	Organic matter	981	g/kg DM	Online European Feedstock Atlas basis version
Barley	Barley bran		Inorganics	Organic matter	942	g/kg DM	Online European Feedstock Atlas basis version
Barley	Barley feeding meal		Inorganics	Organic matter	957	g/kg DM	Online European Feedstock Atlas basis version
Bran	Bran and cereal strip waste (70:30)	Fresh	Inorganics	Organic matter	936	g/kg DM	Online European Feedstock Atlas basis version

Cereal, unspecified	Cereal strip waste	Fresh	Inorganics	Organic matter	939	g/kg DM	Online European Feedstock Atlas basis version
Rice	Rice feeding meal		Inorganics	Organic matter	877	g/kg DM	Online European Feedstock Atlas basis version
Wheat	Wheat bran		Inorganics	Organic matter	940	g/kg DM	Online European Feedstock Atlas basis version
Wheat	Wheat germs		Inorganics	Organic matter	950	g/kg DM	Online European Feedstock Atlas basis version
Potato products	Chip fat		Inorganics	Organic matter	999	g/kg DM	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's grains		Inorganics	Organic matter	956	g/kg DM	Online European Feedstock Atlas basis version

Brewer's yeast/grains, unspecified	Brewer's grains and yeast		Inorganics	Organic matter	500	g/kg DM	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Inorganics	Organic matter	952	g/kg DM	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Inorganics	Organic matter	951	g/kg DM	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Inorganics	Organic matter	919	g/kg DM	Online European Feedstock Atlas basis version
Brewer's yeast/grains, unspecified	Brewer's yeast	Fresh	Inorganics	Organic matter	922	g/kg DM	Online European Feedstock Atlas basis version
Distillers grain	Distillers grain, dried	Dried, solubles only	Inorganics	Organic matter	928	g/kg DM	Online European Feedstock Atlas basis version

Distillers grain	Distillers grain, dried	Dried	Inorganics	Organic matter	948	g/kg DM	Online European Feedstock Atlas basis version
Distillers grain	Distillers grain	Fresh	Inorganics	Organic matter	942	g/kg DM	Online European Feedstock Atlas basis version
Distillery by-products, unspecified	Distillers residues	Fresh	Inorganics	Organic matter	892	g/kg DM	Online European Feedstock Atlas basis version
Potato	Potato pulp	Fresh	Inorganics	Organic matter	850	g/kg DM	Online European Feedstock Atlas basis version
Food, unspecified	Food leftovers		Inorganics	Organic matter	923	g/kg DM	Online European Feedstock Atlas basis version
Tea	Medicinal tea	Fresh	Inorganics	Organic matter	945	g/kg DM	Online European Feedstock Atlas basis version

Animal by-products, unspecified	Animal fats		Inorganics	Organic matter	999	g/kg DM	Online European Feedstock Atlas basis version
Fish, unspecified	Fish liver meal		Inorganics	Organic matter	904	g/kg DM	Online European Feedstock Atlas basis version
Fish, unspecified	Fish meal		Inorganics	Organic matter	791	g/kg DM	Online European Feedstock Atlas basis version
Animal by-products, unspecified	Meat waste		Inorganics	Organic matter	959	g/kg DM	Online European Feedstock Atlas basis version
Poultry	Offals	Poultry meat offals	Inorganics	Organic matter	866	g/kg DM	Online European Feedstock Atlas basis version
Corn	Maize gluten feed		Inorganics	Organic matter	944	g/kg DM	Online European Feedstock Atlas basis version

Potato	Potato chips		Inorganics	Organic matter	951	g/kg DM	Online European Feedstock Atlas basis version
Potato	Potato flakes		Inorganics	Organic matter	948	g/kg DM	Online European Feedstock Atlas basis version
Potato	Potato press water		Inorganics	Organic matter	720	g/kg DM	Online European Feedstock Atlas basis version
Potato	Potato pulp, dried	Dried	Inorganics	Organic matter	923	g/kg DM	Online European Feedstock Atlas basis version
Potato	Potato starch		Inorganics	Organic matter	931	g/kg DM	Online European Feedstock Atlas basis version
Sweets	Residue from production of sweets		Inorganics	Organic matter	867	g/kg DM	Online European Feedstock Atlas basis version

Sugar beet	Sugar beet, dried	Chips	Inorganics	Organic matter	946	g/kg DM	Online European Feedstock Atlas basis version
Sugar cane	Sugar cane molasses	Melasse	Inorganics	Organic matter	863	g/kg DM	Online European Feedstock Atlas basis version
Sugar cane	Sugar cane molasses	Chips, melasse	Inorganics	Organic matter	930	g/kg DM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet molasses residues		Inorganics	Organic matter	791	g/kg DM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet pulp, dried	Dried	Inorganics	Organic matter	921	g/kg DM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet pulp	Fresh	Inorganics	Organic matter	964	g/kg DM	Online European Feedstock Atlas basis version

Sugar beet	Sugar beet pulp	Silage	Inorganics	Organic matter	928	g/kg DM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet scraps		Inorganics	Organic matter	897	g/kg DM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet taproots		Inorganics	Organic matter	713	g/kg DM	Online European Feedstock Atlas basis version
Sugar	Sugar for feeding		Inorganics	Organic matter	992	g/kg DM	Online European Feedstock Atlas basis version
Coconut	Coconut cake/expeller		Inorganics	Organic matter	931	g/kg DM	Online European Feedstock Atlas basis version
Coconut	Coconut meal	Extraction meal	Inorganics	Organic matter	926	g/kg DM	Online European Feedstock Atlas basis version

Cotton	Cottonseed cake/expeller		Inorganics	Organic matter	931	g/kg DM	Online European Feedstock Atlas basis version
Cotton	Cottonseed extraction meal		Inorganics	Organic matter	930	g/kg DM	Online European Feedstock Atlas basis version
Flax/linseed	Flax cake/expeller		Inorganics	Organic matter	936	g/kg DM	Online European Feedstock Atlas basis version
Flax/linseed	Flax extraction meal		Inorganics	Organic matter	934	g/kg DM	Online European Feedstock Atlas basis version
Hemp	Hemp press cake	Fresh	Inorganics	Organic matter	929	g/kg DM	Online European Feedstock Atlas basis version
Corn	Maize germ cake/expeller		Inorganics	Organic matter	963	g/kg DM	Online European Feedstock Atlas basis version

Olive	Olive pulp		Inorganics	Organic matter	921	g/kg DM	Online European Feedstock Atlas basis version
Palm	Palm kernel cake/expeller		Inorganics	Organic matter	956	g/kg DM	Online European Feedstock Atlas basis version
Palm	Palm kernel meal	Extraction meal	Inorganics	Organic matter	956	g/kg DM	Online European Feedstock Atlas basis version
Nuts, unspecified	Nut cake/expeller	Peanut	Inorganics	Organic matter	933	g/kg DM	Online European Feedstock Atlas basis version
Nuts, unspecified	Nut extraction meal	Peanut	Inorganics	Organic matter	935	g/kg DM	Online European Feedstock Atlas basis version
Rape	Rapeseed		Inorganics	Organic matter	507	g/kg DM	Online European Feedstock Atlas basis version

Rape	Rapeseed cake/expeller		Inorganics	Organic matter	928	g/kg DM	Online European Feedstock Atlas basis version
Rape	Rapeseed meal	Extraction meal	Inorganics	Organic matter	916	g/kg DM	Online European Feedstock Atlas basis version
Safflower	Safflower meal	Extraction meal	Inorganics	Organic matter	937	g/kg DM	Online European Feedstock Atlas basis version
Sesame	Sesame meal	Extraction meal	Inorganics	Organic matter	883	g/kg DM	Online European Feedstock Atlas basis version
Soy	Soybean meal	Extraction meal	Inorganics	Organic matter	934	g/kg DM	Online European Feedstock Atlas basis version
Sunflower	Sunflower cake/expeller		Inorganics	Organic matter	933	g/kg DM	Online European Feedstock Atlas basis version

Sunflower	Sunflower meal	Extraction meal	Inorganics	Organic matter	930	g/kg DM	Online European Feedstock Atlas basis version
Sunflower	Sunflower peelings		Inorganics	Organic matter	963	g/kg DM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet leaves	Fresh, for feeding	Inorganics	Organic matter	795	g/kg DM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet leaves	Silage, for feeding	Inorganics	Organic matter	802	g/kg DM	Online European Feedstock Atlas basis version
Corn	Maize strip waste		Inorganics	Organic matter	948	g/kg DM	Online European Feedstock Atlas basis version
Rape	Rapeseed straw		Inorganics	Organic matter	926	g/kg DM	Online European Feedstock Atlas basis version

Rape	Rapeseed strip waste		Inorganics	Organic matter	913	g/kg DM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet leaves and tops	Silage	Inorganics	Organic matter	801	g/kg DM	Online European Feedstock Atlas basis version
Sugar beet	Sugar beet leaves	Silage	Inorganics	Organic matter	748	g/kg DM	Online European Feedstock Atlas basis version
Wheat	Wheat straw		Inorganics	Organic matter	898	g/kg DM	Online European Feedstock Atlas basis version
Wheat	Wheat strip waste		Inorganics	Organic matter	938	g/kg DM	Online European Feedstock Atlas basis version

Apple	Apple pomace	From juice making	Inorganics	Organic matter	53.99	In vitro digestibility (%)	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace	From puree making	Inorganics	Organic matter	63.8	In vitro digestibility (%)	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Rice	Rice bran		Waste compounds	Organic matter digestibility	62	%	Bio-processing of agro-byproducts to animal feed
Rice	Rice hull		Waste compounds	Organic matter digestibility	37	%	Bio-processing of agro-byproducts to animal feed
Sugar beet	Sugar beet leaves	Beta vulgaris	Waste compounds	Organic matter digestibility	83	%	Utilization of fruit and vegetable wastes, FAO

Palm	Palm kernel cake		Waste compounds	Organic matter digestibility	66.8	%	Bio-processing of agro-byproducts to animal feed
Palm	Palm press fibre		Waste compounds	Organic matter digestibility	30.8	%	Bio-processing of agro-byproducts to animal feed
Brewer's yeast/grains, unspecified	Brewer's grains		Waste compounds	Organic matter digestibility	60	%	Bio-processing of agro-byproducts to animal feed
Coconut	Coconut cake		Waste compounds	Organic matter digestibility	78	%	Bio-processing of agro-byproducts to animal feed
Sugar by-products, unspecified	Molasses		Waste compounds	Organic matter digestibility	108	%	Bio-processing of agro-byproducts to animal feed
Pineapple	Pineapple waste		Waste compounds	Organic matter digestibility	76	%	Bio-processing of agro-byproducts to animal feed

Distillery by-products, unspecified	Distillers solids	Wet	Waste compounds	Organic matter digestibility	86.7	%	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Grape	Grape pomace	Skin and seeds, white grape	Waste compounds	Organic matter digestibility	37.18	MJ/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape pomace	Skin and seeds, red grape	Waste compounds	Organic matter digestibility	30.28	MJ/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants

Apple	Apple pomace		Waste compounds	Organic matter digestibility, dry	72.73	% DM	Apple pomace as a supplement to pasture for dairy cows in late lactation
Grape	Grape pomace	Skin and seeds, white grape	Waste compounds	Organic matter digestibility, dry	34.31	% DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape pomace	Skin and seeds, red grape	Waste compounds	Organic matter digestibility, dry	28.3	% DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Cotton	Cotton straw		Waste compounds	Organic matter digestibility, pepsin	29.9	%	Feedipedia
Flax/linseed	Flax, aerial part	Fresh	Waste compounds	Organic matter digestibility, pepsin	65.9	%	Feedipedia

Palm	Palm press fibre	High oil	Waste compounds	Organic matter digestibility, pepsin	17.1	%	Feedipedia
Cotton	Cotton leaves	Fresh	Waste compounds	Organic matter digestibility, pepsin-cellulase	64.7	%	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Waste compounds	Organic matter digestibility, pepsin-cellulase	56.2	%	Feedipedia
Palm	Oil palm fronds	Fresh	Waste compounds	Organic matter digestibility, pepsin-cellulase	57.2	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Waste compounds	Organic matter digestibility, ruminant	53	MJ/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Waste compounds	Organic matter digestibility, ruminant	8	MJ/kg DM	Feedipedia

Soy	Soybean hulls		Waste compounds	Organic matter digestibility, ruminant	42	MJ/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Waste compounds	Organic matter digestibility, ruminant	72	MJ/kg DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Waste compounds	Organic matter digestibility, ruminant	69	MJ/kg DM	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Waste compounds	Organic matter digestibility, ruminant	80	MJ/kg DM	Feedipedia
Orange	Orange	Fruits, fresh	Waste compounds	Organic matter digestibility, ruminant	80	MJ/kg DM	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Waste compounds	Organic matter digestibility, ruminant	68	MJ/kg DM	Feedipedia
Carrot	Carrot	Roots, fresh	Waste compounds	Organic matter digestibility, ruminant	72	MJ/kg DM	Feedipedia

Rice	Rice hay		Waste compounds	Organic matter digestibility, ruminant (gas production)	62	%	Feedipedia
Rice	Rice, aerial part	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	66.2	%	Feedipedia
Rice	Rice straw	Urea-treated	Waste compounds	Organic matter digestibility, ruminant (gas production)	43	%	Feedipedia
Rice	Rice straw	Ammonia-treated	Waste compounds	Organic matter digestibility, ruminant (gas production)	57.6	%	Feedipedia
Rice	Rice straw	NaOH-treated	Waste compounds	Organic matter digestibility, ruminant (gas production)	62	%	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	65.2	%	Feedipedia

Sugar cane	Sugar cane stalks	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	69.4	%	Feedipedia
Sugar cane	Sugar cane leaves	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	30.6	%	Feedipedia
Wheat	Triticale grain		Waste compounds	Organic matter digestibility, ruminant (gas production)	88.1	%	Feedipedia
Wheat	Triticale aerial part	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	68.5	%	Feedipedia
Wheat	Triticale straw		Waste compounds	Organic matter digestibility, ruminant (gas production)	49.9	%	Feedipedia
Wheat	Wheat hay		Waste compounds	Organic matter digestibility, ruminant (gas production)	58	%	Feedipedia

Wheat	Wheat straw		Waste compounds	Organic matter digestibility, ruminant (gas production)	48.4	%	Feedipedia
Wheat	Wheat forage	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	69.2	%	Feedipedia
Palm	Oil palm fronds	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	56	%	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	51.7	%	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Waste compounds	Organic matter digestibility, ruminant (gas production)	71.2	%	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Waste compounds	Organic matter digestibility, ruminant (gas production)	66.9	%	Feedipedia

Distillery by-products, unspecified	Pot ale syrup		Waste compounds	Organic matter digestibility, ruminant (gas production)	89	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Waste compounds	Organic matter digestibility, ruminant (gas production)	63	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Waste compounds	Organic matter digestibility, ruminant (gas production)	62.6	%	Feedipedia
Rice	Rice grain	Polished	Waste compounds	Organic matter digestibility, ruminant (gas production)	92.5	%	Feedipedia
Rice	Rice grain	Polished, parboiled	Waste compounds	Organic matter digestibility, ruminant (gas production)	92.9	%	Feedipedia
Rice	Rice grain	Brown	Waste compounds	Organic matter digestibility, ruminant (gas production)	89.5	%	Feedipedia

Barley	Barley rootlets	Dehydrated	Waste compounds	Organic matter digestibility, ruminant (gas production)	67.4	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Waste compounds	Organic matter digestibility, ruminant (gas production)	83.3	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Waste compounds	Organic matter digestibility, ruminant (gas production)	84	%	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Waste compounds	Organic matter digestibility, ruminant (gas production)	82.4	%	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Waste compounds	Organic matter digestibility, ruminant (gas production)	84	%	Feedipedia
Rice	Rice bran	Fibre <4%	Waste compounds	Organic matter digestibility, ruminant (gas production)	94.4	%	Feedipedia

Rice	Rice bran	Fibre 4-11%	Waste compounds	Organic matter digestibility, ruminant (gas production)	76.9	%	Feedipedia
Rice	Rice bran	Fibre 11-20%	Waste compounds	Organic matter digestibility, ruminant (gas production)	63.8	%	Feedipedia
Rice	Rice bran	Fibre >20%	Waste compounds	Organic matter digestibility, ruminant (gas production)	46.4	%	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Waste compounds	Organic matter digestibility, ruminant (gas production)	82.5	%	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Waste compounds	Organic matter digestibility, ruminant (gas production)	75	%	Feedipedia
Rice	Rice hull		Waste compounds	Organic matter digestibility, ruminant (gas production)	28.9	%	Feedipedia

Rice	Rough rice, paddy rice		Waste compounds	Organic matter digestibility, ruminant (gas production)	72.1	%	Feedipedia
Sorghum	Sorghum bran and milling offal		Waste compounds	Organic matter digestibility, ruminant (gas production)	86.1	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Waste compounds	Organic matter digestibility, ruminant (gas production)	77.6	%	Feedipedia
Sorghum	Malted sorghum sprouts		Waste compounds	Organic matter digestibility, ruminant (gas production)	66.5	%	Feedipedia
Distillers grain	Distillers grain	Fresh, Sorghum, with or without solubles	Waste compounds	Organic matter digestibility, ruminant (gas production)	80.8	%	Feedipedia
Sorghum	Sorghum gluten feed		Waste compounds	Organic matter digestibility, ruminant (gas production)	83	%	Feedipedia

Sorghum	Sorghum gluten meal		Waste compounds	Organic matter digestibility, ruminant (gas production)	88	%	Feedipedia
Sorghum	Sorghum germ oil meal		Waste compounds	Organic matter digestibility, ruminant (gas production)	81.4	%	Feedipedia
Sorghum	Sorghum grain	All types	Waste compounds	Organic matter digestibility, ruminant (gas production)	88	%	Feedipedia
Sorghum	Sorghum grain	High tannin	Waste compounds	Organic matter digestibility, ruminant (gas production)	86.2	%	Feedipedia
Sorghum	Sorghum grain	Low tannin	Waste compounds	Organic matter digestibility, ruminant (gas production)	89.1	%	Feedipedia
Sorghum	Sorghum grain	Red varieties	Waste compounds	Organic matter digestibility, ruminant (gas production)	87.3	%	Feedipedia

Sorghum	Sorghum grain	White varieties	Waste compounds	Organic matter digestibility, ruminant (gas production)	87.7	%	Feedipedia
Wheat	Wheat bran		Waste compounds	Organic matter digestibility, ruminant (gas production)	73.4	%	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Waste compounds	Organic matter digestibility, ruminant (gas production)	78.5	%	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Waste compounds	Organic matter digestibility, ruminant (gas production)	82.3	%	Feedipedia
Wheat	Wheat germs		Waste compounds	Organic matter digestibility, ruminant (gas production)	85.6	%	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Waste compounds	Organic matter digestibility, ruminant (gas production)	63.4	%	Feedipedia

Wheat	Wheat grain		Waste compounds	Organic matter digestibility, ruminant (gas production)	88.2	%	Feedipedia
Wheat	Wheat grain	Durum	Waste compounds	Organic matter digestibility, ruminant (gas production)	87.5	%	Feedipedia
Wheat	Wheat screenings		Waste compounds	Organic matter digestibility, ruminant (gas production)	84.8	%	Feedipedia
Cacao/cocoa	Cocoa hulls		Waste compounds	Organic matter digestibility, ruminant (gas production)	38.2	%	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Waste compounds	Organic matter digestibility, ruminant (gas production)	79.7	%	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Waste compounds	Organic matter digestibility, ruminant (gas production)	78.7	%	Feedipedia

Cotton	Cotton straw		Waste compounds	Organic matter digestibility, ruminant (gas production)	37.2	%	Feedipedia
Cotton	Cotton leaves	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	89.7	%	Feedipedia
Cotton	Cottonseed hulls		Waste compounds	Organic matter digestibility, ruminant (gas production)	42.9	%	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Waste compounds	Organic matter digestibility, ruminant (gas production)	78.2	%	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Waste compounds	Organic matter digestibility, ruminant (gas production)	81.7	%	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Waste compounds	Organic matter digestibility, ruminant (gas production)	71.3	%	Feedipedia

Cotton	Cottonseed meal	High fibre, low oil	Waste compounds	Organic matter digestibility, ruminant (gas production)	68.1	%	Feedipedia
Flax/linseed	Flax straw		Waste compounds	Organic matter digestibility, ruminant (gas production)	42.2	%	Feedipedia
Flax/linseed	Flax chaff		Waste compounds	Organic matter digestibility, ruminant (gas production)	50.4	%	Feedipedia
Flax/linseed	Flax shives		Waste compounds	Organic matter digestibility, ruminant (gas production)	37.9	%	Feedipedia
Flax/linseed	Flax hay		Waste compounds	Organic matter digestibility, ruminant (gas production)	58	%	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Waste compounds	Organic matter digestibility, ruminant (gas production)	40.4	%	Feedipedia

Flax/linseed	Linseed meal		Waste compounds	Organic matter digestibility, ruminant (gas production)	78	%	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Waste compounds	Organic matter digestibility, ruminant (gas production)	78	%	Feedipedia
Flax/linseed	Linseeds		Waste compounds	Organic matter digestibility, ruminant (gas production)	80	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Waste compounds	Organic matter digestibility, ruminant (gas production)	78.4	%	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Waste compounds	Organic matter digestibility, ruminant (gas production)	78.9	%	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Waste compounds	Organic matter digestibility, ruminant (gas production)	86.5	%	Feedipedia

Corn	Maize germ meal	Protein <20%, oil <5%	Waste compounds	Organic matter digestibility, ruminant (gas production)	83.7	%	Feedipedia
Corn	Maize germ	Oil <30%	Waste compounds	Organic matter digestibility, ruminant (gas production)	87.1	%	Feedipedia
Corn	Maize germ	Oil >30%	Waste compounds	Organic matter digestibility, ruminant (gas production)	79.3	%	Feedipedia
Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Waste compounds	Organic matter digestibility, ruminant (gas production)	86.9	%	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Waste compounds	Organic matter digestibility, ruminant (gas production)	70.3	%	Feedipedia
Palm	Oil palm kernels		Waste compounds	Organic matter digestibility, ruminant (gas production)	76.7	%	Feedipedia

Olive	Olive oil cake	Crude, with stones	Waste compounds	Organic matter digestibility, ruminant (gas production)	25.8	%	Feedipedia
Olive	Olive oil cake	Crude, without stones	Waste compounds	Organic matter digestibility, ruminant (gas production)	39.5	%	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Waste compounds	Organic matter digestibility, ruminant (gas production)	26.5	%	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Waste compounds	Organic matter digestibility, ruminant (gas production)	43.2	%	Feedipedia
Olive	Olive oil pulp	Crude	Waste compounds	Organic matter digestibility, ruminant (gas production)	51.4	%	Feedipedia
Olive	Olive oil pulp	Exhausted	Waste compounds	Organic matter digestibility, ruminant (gas production)	49.5	%	Feedipedia

Olive	Olive skins		Waste compounds	Organic matter digestibility, ruminant (gas production)	43.5	%	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Waste compounds	Organic matter digestibility, ruminant (gas production)	71.6	%	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Waste compounds	Organic matter digestibility, ruminant (gas production)	71.4	%	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Waste compounds	Organic matter digestibility, ruminant (gas production)	59	%	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Waste compounds	Organic matter digestibility, ruminant (gas production)	20.1	%	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Waste compounds	Organic matter digestibility, ruminant (gas production)	83.7	%	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil >5%	Waste compounds	Organic matter digestibility, ruminant (gas production)	83.7	%	Feedipedia
Peanuts	Peanuts	Without shells	Waste compounds	Organic matter digestibility, ruminant (gas production)	92.6	%	Feedipedia
Peanuts	Peanuts, with shells	With shells	Waste compounds	Organic matter digestibility, ruminant (gas production)	85.6	%	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Waste compounds	Organic matter digestibility, ruminant (gas production)	59.4	%	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Waste compounds	Organic matter digestibility, ruminant (gas production)	73.3	%	Feedipedia
Pumpkin	Pumpkin crop by-product	Fresh, Cucurbita sp.	Waste compounds	Organic matter digestibility, ruminant (gas production)	76.2	%	Feedipedia

Pumpkin	Pumpkin hulls	Cucurbita sp.	Waste compounds	Organic matter digestibility, ruminant (gas production)	21.9	%	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Waste compounds	Organic matter digestibility, ruminant (gas production)	66.8	%	Feedipedia
Pumpkin	Pumpkin seeds	Without hulls, Cucurbita sp.	Waste compounds	Organic matter digestibility, ruminant (gas production)	88.4	%	Feedipedia
Rape	Rape forage	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	82.2	%	Feedipedia
Rape	Rape forage	Silage	Waste compounds	Organic matter digestibility, ruminant (gas production)	78.8	%	Feedipedia
Rape	Rape straw		Waste compounds	Organic matter digestibility, ruminant (gas production)	40.1	%	Feedipedia

Rape	Rapeseed hulls		Waste compounds	Organic matter digestibility, ruminant (gas production)	54.8	%	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Waste compounds	Organic matter digestibility, ruminant (gas production)	76.5	%	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Waste compounds	Organic matter digestibility, ruminant (gas production)	77.6	%	Feedipedia
Canola	Canola meal	Oil <5% as fed	Waste compounds	Organic matter digestibility, ruminant (gas production)	78.1	%	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Waste compounds	Organic matter digestibility, ruminant (gas production)	82.4	%	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Waste compounds	Organic matter digestibility, ruminant (gas production)	47.8	%	Feedipedia

Safflower	Safflower meal	Without hulls, expeller extraction. Carthamus tinctorius	Waste compounds	Organic matter digestibility, ruminant (gas production)	67.7	%	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Waste compounds	Organic matter digestibility, ruminant (gas production)	80.3	%	Feedipedia
Soy	Soybean, aerial part	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	64	%	Feedipedia
Soy	Soybean hay		Waste compounds	Organic matter digestibility, ruminant (gas production)	59	%	Feedipedia
Soy	Soybean hulls		Waste compounds	Organic matter digestibility, ruminant (gas production)	81.8	%	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Waste compounds	Organic matter digestibility, ruminant (gas production)	91.9	%	Feedipedia

Soy	Soybean meal	High protein (non-dehulled)	Waste compounds	Organic matter digestibility, ruminant (gas production)	92.4	%	Feedipedia
Soy	Soybean meal	High oil (expeller)	Waste compounds	Organic matter digestibility, ruminant (gas production)	92.4	%	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Waste compounds	Organic matter digestibility, ruminant (gas production)	81.4	%	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Waste compounds	Organic matter digestibility, ruminant (gas production)	82.2	%	Feedipedia
Soy	Soybeans	Toasted	Waste compounds	Organic matter digestibility, ruminant (gas production)	81.4	%	Feedipedia
Soy	Soybeans	Extruded	Waste compounds	Organic matter digestibility, ruminant (gas production)	81.5	%	Feedipedia

Sunflower	Sunflower forage	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	66.4	%	Feedipedia
Sunflower	Sunflower forage	Silage	Waste compounds	Organic matter digestibility, ruminant (gas production)	66.9	%	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Waste compounds	Organic matter digestibility, ruminant (gas production)	46.2	%	Feedipedia
Sunflower	Sunflower heads	Without seeds	Waste compounds	Organic matter digestibility, ruminant (gas production)	62.9	%	Feedipedia
Sunflower	Sunflower stalks		Waste compounds	Organic matter digestibility, ruminant (gas production)	50.9	%	Feedipedia
Sunflower	Sunflower screenings		Waste compounds	Organic matter digestibility, ruminant (gas production)	52.4	%	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Waste compounds	Organic matter digestibility, ruminant (gas production)	66.4	%	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Waste compounds	Organic matter digestibility, ruminant (gas production)	61.2	%	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Waste compounds	Organic matter digestibility, ruminant (gas production)	63.6	%	Feedipedia
Tomatoes	Tomato oil cake		Waste compounds	Organic matter digestibility, ruminant (gas production)	55.2	%	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Waste compounds	Organic matter digestibility, ruminant (gas production)	88.2	%	Feedipedia

Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Waste compounds	Organic matter digestibility, ruminant (gas production)	88.6	%	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, high fibre	Waste compounds	Organic matter digestibility, ruminant (gas production)	51.2	%	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Waste compounds	Organic matter digestibility, ruminant (gas production)	55.4	%	Feedipedia
Apple	Apple pomace	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	69.8	%	Feedipedia
Apple	Apple	Whole, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	84.2	%	Feedipedia

Banana	Banana fruits	Mature, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	82	%	Feedipedia
Banana	Banana	Aerial part, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	74	%	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	93.5	%	Feedipedia
Citrus, unspecified	Citrus, dried	Fruits, dried	Waste compounds	Organic matter digestibility, ruminant (gas production)	83.2	%	Feedipedia
Orange	Orange	Fruits, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	93.5	%	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Waste compounds	Organic matter digestibility, ruminant (gas production)	79.4	%	Feedipedia

Citrus, unspecified	Citrus pulp, dried		Waste compounds	Organic matter digestibility, ruminant (gas production)	88	%	Feedipedia
Orange	Orange pulp, dried	Orange, dried	Waste compounds	Organic matter digestibility, ruminant (gas production)	88.8	%	Feedipedia
Orange	Orange pulp, dried	Mandarin, dried	Waste compounds	Organic matter digestibility, ruminant (gas production)	88.4	%	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Waste compounds	Organic matter digestibility, ruminant (gas production)	89.8	%	Feedipedia
Orange	Orange pulp	Orange, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	92.4	%	Feedipedia
Grapefruit	Grapefruit pulp	Grapefruit, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	92.2	%	Feedipedia

Orange	Orange pulp	Clementine, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	96.5	%	Feedipedia
Lemon	Lemon pulp	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	91.7	%	Feedipedia
Orange	Orange peel	Orange, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	98.1	%	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	92.1	%	Feedipedia
Grapefruit	Grapefruit peel silage	Grapefruit	Waste compounds	Organic matter digestibility, ruminant (gas production)	88.8	%	Feedipedia
Lime	Lime peel silage	Lime	Waste compounds	Organic matter digestibility, ruminant (gas production)	77.8	%	Feedipedia

Coffee	Instant coffee by product		Waste compounds	Organic matter digestibility, ruminant (gas production)	31	%	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Waste compounds	Organic matter digestibility, ruminant (gas production)	83	%	Feedipedia
Date	Date palm leaves	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	45.6	%	Feedipedia
Date	Date palm leaves	Dry	Waste compounds	Organic matter digestibility, ruminant (gas production)	44.5	%	Feedipedia
Date	Date palm pedicels		Waste compounds	Organic matter digestibility, ruminant (gas production)	48.1	%	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Waste compounds	Organic matter digestibility, ruminant (gas production)	30.1	%	Feedipedia

Grape	Grape pomace	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	32.5	%	Feedipedia
Grape	Grape pomace	Silage	Waste compounds	Organic matter digestibility, ruminant (gas production)	25.5	%	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Waste compounds	Organic matter digestibility, ruminant (gas production)	26.6	%	Feedipedia
Sugar beet	Sugar beet molasses		Waste compounds	Organic matter digestibility, ruminant (gas production)	88.7	%	Feedipedia
Carrot	Carrot	Roots, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	87.5	%	Feedipedia
Carrot	Carrot tops	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	77.6	%	Feedipedia

Potato	Potato, aerial part	Ensiled	Waste compounds	Organic matter digestibility, ruminant (gas production)	46.9	%	Feedipedia
Potato	Potato aerial part	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	44	%	Feedipedia
Potato	Potato	Tuber, raw	Waste compounds	Organic matter digestibility, ruminant (gas production)	91.4	%	Feedipedia
Sugar beet	Sugar beet pulp		Waste compounds	Organic matter digestibility, ruminant (gas production)	83.8	%	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Waste compounds	Organic matter digestibility, ruminant (gas production)	84.3	%	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	83	%	Feedipedia

Sugar beet	Sugar beet pulp	Silage	Waste compounds	Organic matter digestibility, ruminant (gas production)	82.4	%	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	91.9	%	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	76.3	%	Feedipedia
Sugar beet	Sugar beet tops, dried	Dried	Waste compounds	Organic matter digestibility, ruminant (gas production)	75.7	%	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Waste compounds	Organic matter digestibility, ruminant (gas production)	66	%	Feedipedia
Potato	Sweet potato	Tubers, fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	85.1	%	Feedipedia

Potato	Sweet potato, dried	Tubers, dehydrated	Waste compounds	Organic matter digestibility, ruminant (gas production)	86.1	%	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	49.7	%	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Waste compounds	Organic matter digestibility, ruminant (gas production)	45.5	%	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Urea-treated, dehydrated	Waste compounds	Organic matter digestibility, ruminant (gas production)	41.8	%	Feedipedia
Sugar by-products, unspecified	Bagasse pith		Waste compounds	Organic matter digestibility, ruminant (gas production)	46.7	%	Feedipedia
Sugar cane	Sugar cane molasses		Waste compounds	Organic matter digestibility, ruminant (gas production)	79.7	%	Feedipedia

Sugar cane	Sugar cane tops	Fresh	Waste compounds	Organic matter digestibility, ruminant (gas production)	57	%	Feedipedia
Sugar cane	Sugar cane tops	Silage	Waste compounds	Organic matter digestibility, ruminant (gas production)	55.1	%	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Waste compounds	Organic matter digestibility, ruminant (gas production)	71.4	%	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Waste compounds	Organic matter digestibility, ruminant (gas production)	76.3	%	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Waste compounds	Organic matter digestibility, ruminant (gas production)	74.6	%	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Waste compounds	Organic matter digestibility, ruminant (gas production)	80.1	%	Feedipedia

Poultry	Feather meal		Waste compounds	Organic matter digestibility, ruminant (gas production)	76.8	%	Feedipedia
Fish, unspecified	Fish meal	High protein	Waste compounds	Organic matter digestibility, ruminant (gas production)	95.3	%	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Waste compounds	Organic matter digestibility, ruminant (gas production)	95.4	%	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Waste compounds	Organic matter digestibility, ruminant (gas production)	94	%	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Waste compounds	Organic matter digestibility, ruminant (gas production)	94	%	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Waste compounds	Organic matter digestibility, ruminant (gas production)	89.7	%	Feedipedia

Sugar beet	Sugar beet leaves	Beta vulgaris	Waste compounds	Organic matter digestibility, true	83	%	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Waste compounds	Organic matter digestibility, true	87.6	%	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Waste compounds	Organic matter digestibility, true	90.5	%	Utilization of fruit and vegetable wastes, FAO
Rye	Seed residue		Waste compounds	Organic matter, enzymatic digestible	403	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Waste compounds	Organic matter, enzymatic digestible	677	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Waste compounds	Organic matter, enzymatic digestible	481	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Waste compounds	Organic matter, enzymatic digestible	659	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Waste compounds	Organic matter, enzymatic digestible	771	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Sugar beet	Sugar beet pulp		Waste compounds	Organic matter, enzymatic digestible	905	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Waste compounds	Organic matter, enzymatic digestible	908	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Waste compounds	Organic matter, enzymatic digestible	840	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Citrus, unspecified	Citrus pulp, dried		Inorganics	Organic matter, ethanol insoluble	589	g/kg DM	Citrus by-products as ruminant feeds: A review
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Ornithine	0.04	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Ornithine	1.17	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Sugar beet	Sugar beet pulp		Proximates	Ornithine	0.01	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Waste compounds	Oxidative stability index	6.62	h	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Rice	Rice husk	Before soaking pre-treatment	Inorganics	Oxygen	36.05	% d.b.	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Rice	Rice husk, dried	Soaked rice husks, dried	Inorganics	Oxygen	38.01	% d.b.	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Sugar by-products, unspecified	Bagasse		Inorganics	Oxygen	45.5	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Sugar by-products, unspecified	Trash		Inorganics	Oxygen	43.1	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Grape	Grape marc		Inorganics	Oxygen	35.03	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape stalks		Inorganics	Oxygen	37.55	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Inorganics	Oxygen	31.33	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape seeds		Inorganics	Oxygen	28.67	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape oil cake		Inorganics	Oxygen	34.56	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Inorganics	Oxygen	35.28	% d.b.	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato peel		Inorganics	Oxygen	28.8	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato seed		Inorganics	Oxygen	25	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Inorganics	Oxygen	29.2	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato meal		Inorganics	Oxygen	31	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato residues, dried	Dry	Inorganics	Oxygen	31.5	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Inorganics	Oxygen	29.1	% d.b.	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Sugar cane	Sugar cane bagasse		Inorganics	Oxygen	41.35	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations

Sugar cane	Sugar cane bagasse		Inorganics	Oxygen	43.36	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Cotton	Cotton stalk		Inorganics	Oxygen	42.1	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Rice	Rice husk		Inorganics	Oxygen	37.5	% d.b.	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Variety: Lemont LG	Inorganics	Oxygen	36.56	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis

Rice	Rice husk	Variety: ROK 14	Inorganics	Oxygen	33.66	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: CP4	Inorganics	Oxygen	31.37	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: Pa Potho	Inorganics	Oxygen	33.44	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Olive	Olive husk		Inorganics	Oxygen	35.41	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura

Olive	Olive husk		Inorganics	Oxygen	36.3	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Inorganics	Oxygen	36.97	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Inorganics	Oxygen	38.25	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Grape	Grape waste		Inorganics	Oxygen	38.63	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Coconut	Char from coconut shell	Char produced at 750°C	Inorganics	Oxygen	6.04	%	ECN Phyllis 2

Grape	Char from grape residue	Residue from wine production, pyrolysis in packed bed (280-530°C deg C radial profile)	Inorganics	Oxygen	16.5	%	ECN Phyllis 2
Rice	Char from rice hulls		Inorganics	Oxygen	2.3	%	ECN Phyllis 2
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Oxygen	9.1	%	ECN Phyllis 2
Grapefruit	Grapefruit skin char	GrapefuitChar produced at 700°C from grapefruit skin	Inorganics	Oxygen	5.55	%	ECN Phyllis 2
Orange	Orange skin char	OrangeCarbonization under N2 for 2 hours at 700°C	Inorganics	Oxygen	8.13	%	ECN Phyllis 2
Poultry	Pyrolysis char from skimmings poultry processing	600°C pyrolysis	Inorganics	Oxygen	16.39	%	ECN Phyllis 2

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Oxygen	0.29	%	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Oxygen	10.3	%	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Oxygen	2.83	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 400/60/0. Combustion temperature: 400°C, 60 minutes, 0% oxygen	Inorganics	Oxygen	11.75	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Oxygen	2.05	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Oxygen	3.61	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Oxygen	3.42	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Oxygen	4.25	%	ECN Phyllis 2
Olive	Char from olive husks	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Oxygen	12.9	%	ECN Phyllis 2
Olive	Char from olive husks		Inorganics	Oxygen	11.6	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 623 K; S-Co2 = 305 m2/g	Inorganics	Oxygen	18.55	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at 873 K; S-N2 = 85 m2/g, S-CO2 = 548 m2/g	Inorganics	Oxygen	4.25	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 1123 K; S-CO2 = 737 m2/g	Inorganics	Oxygen	4.24	%	ECN Phyllis 2

Peanuts	Char from peanut shells	Char produced at 350°C	Inorganics	Oxygen	22.91	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 600°C	Inorganics	Oxygen	11.05	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 850°C	Inorganics	Oxygen	13.03	%	ECN Phyllis 2
Rice	Rice straw char	Char from pyrolysis at 490°C	Inorganics	Oxygen	6.08	%	ECN Phyllis 2
Straw	Straw		Inorganics	Oxygen	41.33	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Oxygen	12.49	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Oxygen	5.03	%	ECN Phyllis 2
Wheat	Char from wheat straw	Char from fluid bed gasifier	Inorganics	Oxygen	4.75	%	ECN Phyllis 2
Wheat	Char from wheat straw	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Oxygen	16.52	%	ECN Phyllis 2
Wheat	Wheat straw char		Inorganics	Oxygen	11.1	%	ECN Phyllis 2
Sugar cane	Sugar cane trash	Ground pellets	Inorganics	Oxygen	36.38	%	ECN Phyllis 2

Sugar beet	Sugar beet		Inorganics	Oxygen	42.78	%	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Oxygen	6.21	%	ECN Phyllis 2
Bean	Bean plant		Inorganics	Oxygen	4.8	%	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Oxygen	35.47	%	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Oxygen	1.94	%	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Oxygen	3.31	%	ECN Phyllis 2
Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Oxygen	2.52	%	ECN Phyllis 2

Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Oxygen	6.68	%	ECN Phyllis 2
Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Oxygen	3.79	%	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Oxygen	3.06	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Oxygen	36.82	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Oxygen	40.6	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Oxygen	36.95	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Oxygen	38.73	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Oxygen	42.27	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Inorganics	Oxygen	45.01	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Oxygen	41.6	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Oxygen	36.93	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Oxygen	41.03	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Oxygen	40.78	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Oxygen	36.61	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Oxygen	39.96	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Oxygen	44.46	%	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Oxygen	37.81	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Oxygen	40.08	%	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Oxygen	29.11	%	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Oxygen	28.52	%	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Oxygen	33.27	%	ECN Phyllis 2
Cacao/cocoa	Cacao shells	Report JOU2-CT93-0397; data from K. Lassing, E. Olsson and L. Waldheim, TPS	Inorganics	Oxygen	33.63	%	ECN Phyllis 2
Cacao/cocoa	Cacao hulls		Inorganics	Oxygen	33.19	%	ECN Phyllis 2
Coconut	Coconut shell	Coconuts shells from Madal, Mozambique	Inorganics	Oxygen	37.29	%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Oxygen	43.37	%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Oxygen	39.93	%	ECN Phyllis 2
Coconut	Coconut fibre	Coir	Inorganics	Oxygen	63.5	%	ECN Phyllis 2

Coconut	Coconut fibre dust	Coir. Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Inorganics	Oxygen	43.39	%	ECN Phyllis 2
Coconut	Coconut fibre dust	Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Inorganics	Oxygen	39.63	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 4.2% (obtained with extraction with acetone/water)	Inorganics	Oxygen	41.75	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 1, samples from Trabzon, Turkey	Inorganics	Oxygen	39.87	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 2, samples from Trabzon, Turkey	Inorganics	Oxygen	39.33	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 3, samples from Trabzon, Turkey	Inorganics	Oxygen	40.37	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 4, samples from Trabzon, Turkey	Inorganics	Oxygen	40.53	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Oxygen	40.2	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Oxygen	37.42	%	ECN Phyllis 2

Nuts, unspecified	Nut seedcoat	Hazelnut. Biochemical composition on extractive free basis. Concentration of extractives: 19.6% (obtained with extraction with alcohol/benzene)	Inorganics	Oxygen	41.54	%	ECN Phyllis 2
Olive	Olive		Inorganics	Oxygen	37.82	%	ECN Phyllis 2
Olive	Olive		Inorganics	Oxygen	42.46	%	ECN Phyllis 2
Olive	Olive		Inorganics	Oxygen	39.09	%	ECN Phyllis 2
Olive	Olive cake		Inorganics	Oxygen	27.53	%	ECN Phyllis 2
Olive	Olive husk	Biochemical composition on extractive free basis. Concentration of extractives: 8.1% (obtained with extraction with alcohol/benzene)	Inorganics	Oxygen	40.51	%	ECN Phyllis 2

Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Oxygen	36.7	%	ECN Phyllis 2
Olive	Olive husk	Ash type: 815°C	Inorganics	Oxygen	32.47	%	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Oxygen	35.92	%	ECN Phyllis 2
Olive	Olive pits		Inorganics	Oxygen	43.48	%	ECN Phyllis 2
Olive	Olive pits	S-N2 = 0,6 m2/g; S-CO2 = 53 m2/g; see for char 1825, 1826 and 1827	Inorganics	Oxygen	47.17	%	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Oxygen	40.97	%	ECN Phyllis 2
Olive	Olive residue	Oily refuse from olive processing	Inorganics	Oxygen	42.21	%	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Oxygen	32	%	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Oxygen	30.83	%	ECN Phyllis 2
Olive	Olive residue		Inorganics	Oxygen	31.16	%	ECN Phyllis 2
Olive	Olive waste	Country: Spain	Inorganics	Oxygen	30.2	%	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Oxygen	27.48	%	ECN Phyllis 2
Olive	Olive husk	Exhausted	Inorganics	Oxygen	34	%	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Oxygen	35.54	%	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Oxygen	33.64	%	ECN Phyllis 2

Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Oxygen	34.98	%	ECN Phyllis 2
Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Oxygen	32.7	%	ECN Phyllis 2

Olive	Orujillo	Wood matter from pressed oil stone	Inorganics	Oxygen	33.54	%	ECN Phyllis 2
Cherry	Cherry pits		Inorganics	Oxygen	35.77	%	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Oxygen	42.14	%	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Oxygen	34.95	%	ECN Phyllis 2
Peach	Peach pits		Inorganics	Oxygen	39.14	%	ECN Phyllis 2
Peach	Peach pits		Inorganics	Oxygen	42.92	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Oxygen	38.06	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Oxygen	38.05	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Oxygen	43.41	%	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Oxygen	27.77	%	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Oxygen	43.57	%	ECN Phyllis 2
Apricot	Apricot stones	Apricot stones as waste product of canning industry, Bulgaria	Inorganics	Oxygen	39.14	%	ECN Phyllis 2
Babassu	Babassu husks		Inorganics	Oxygen	42.29	%	ECN Phyllis 2

Coffee	Coffee husk	Parchment	Inorganics	Oxygen	41.92	%	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Inorganics	Oxygen	37.46	%	ECN Phyllis 2
Grape	Grape seeds		Inorganics	Oxygen	32.34	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Kukui. Charcoal yield 58.6% at 1 MPa, fixed-C yield 41.4%	Inorganics	Oxygen	37.99	%	ECN Phyllis 2
Lemon	Lemon pellets	Lemon. Ash type: 815°C	Inorganics	Oxygen	40.28	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Inorganics	Oxygen	32.77	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia	Inorganics	Oxygen	39.69	%	ECN Phyllis 2
Millet	Millet husk		Inorganics	Oxygen	33.67	%	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Oxygen	40.55	%	ECN Phyllis 2

Babassu	Babassu cake		Inorganics	Oxygen	39.4	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Canola	Canola cake		Inorganics	Oxygen	33.3	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Castor	Castor seed cake		Inorganics	Oxygen	32.1	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Sunflower	Sunflower cake		Inorganics	Oxygen	32.2	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower oil cake		Inorganics	Oxygen	45.6	% dry ash free basis	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake
Nuts, unspecified	Nut shells	Cashew	Inorganics	Oxygen	42.96	% by difference	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shells	Cashew, de-oiled	Inorganics	Oxygen	34.22	% by difference	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Inorganics	Oxygen	12.9	% by difference DM	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Inorganics	Oxygen	8.1	% by difference DM	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Sunflower	Sunflower extracted bagasse		Inorganics	Oxygen	31.7	wt% daf	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse

Sunflower	Sunflower extracted atmosphere oil		Inorganics	Oxygen	17.3	wt% daf	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Sunflower	Sunflower extracted atmosphere oil	Nitrogen	Inorganics	Oxygen	12.3	wt% daf	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Beef	Paunch		Inorganics	Oxygen	37.4	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Dissolved air flotation sludge		Inorganics	Oxygen	26.6	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Soft offal		Inorganics	Oxygen	18.9	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Mixture of paunch, dissolved air flotation sludge and soft offal at annual production ratios		Inorganics	Oxygen	29.8	% total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Cattle manure	Slurry	Inorganics	Oxygen	23.1	% total solids	Co-digestion of source segregated domestic food waste to improve process stability
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Oxygen	33.3	% total solids	Co-digestion of source segregated domestic food waste to improve process stability

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Luton, UK	Inorganics	Oxygen	30.7	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Hackney, UK	Inorganics	Oxygen	29.8	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Ludlow, UK	Inorganics	Oxygen	34.3	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Eastleigh, UK	Inorganics	Oxygen	34.7	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Inorganics	Oxygen	41.85	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Inorganics	Oxygen	35.57	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rape	Rape straw	490 fully ripe rape straw samples collected in China	Inorganics	Oxygen	39.59	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Inorganics	Oxygen	41.13	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice husk	Raw	Inorganics	Oxygen (by difference)	48.6	% dry ash free basis	Development of photoluminescent glass derived from rice husk

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Pantothenate	0.05	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Citrus, unspecified	Citrus meal, dried		Vitamins	Pantothenic acid	14.3	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Vitamins	Pantothenic acid	15.4	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Vitamins	Pantothenic acid	18.8	mg/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Vitamins	Pantothenic acid	17.4	mg/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Vitamins	Pantothenic acid	15.1	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Vitamins	Pantothenic acid	18.6	mg/kg DM	Citrus by-products as ruminant feeds: A review
Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Waste compounds	Particle density	1780	kg/m3	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 400/60/0. Combustion temperature: 400°C, 60 minutes, 0% oxygen	Waste compounds	Particle density	1670	kg/m3	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	Particle density	1870	kg/m3	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	Particle density	1888	kg/m3	ECN Phyllis 2
Sunflower	Sunflower oil cake	By-product. Helianthus annuus (seed)	Waste compounds	Particle size	<2	mm	Cropgen database
Apple	Apple pomace		Undesirable components	Patulin	1090	µg/kg	NOSHAN
Orange	Orange peel	Orange	Undesirable components	Patulin	<0.05	µg/kg	NOSHAN
Apple	Apple cake		Undesirable components	Patulin	<0.05	µg/kg	NOSHAN
Cabbage	Cabbage		Undesirable components	Patulin	<0.05	µg/kg	NOSHAN
Cucumber	Cucumber	Sour	Undesirable components	Patulin	<0.05	µg/kg	NOSHAN

Grape	Grape pomace		Undesirable components	Patulin	<0.05	µg/kg	NOSHAN
Olive	Olive pomace		Undesirable components	Patulin	9967	µg/kg	NOSHAN
Tomatoes	Tomato skin		Undesirable components	Patulin	<0.05	µg/kg	NOSHAN
Apple	Apple	Whole	Undesirable components	Patulin	62	µg/kg	NOSHAN
Pears	Pear	Whole	Undesirable components	Patulin	<0.05	µg/kg	NOSHAN
Apple	Apple pomace	Wet	Proximates	Pectin	2	%	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Dried	Proximates	Pectin	16.5	%	Handbook of poultry feed from waste: processing and use
Tomatoes	Tomato	Cull	Proximates	Pectin	2-6	%	Utilization of fruit and vegetable wastes, FAO
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Pectin	19.5	% DM	Feedipedia
Hop	Hops		Proximates	Pectin	4.6	% DM	ECN Phyllis 2
Hop	Hops	Bast	Proximates	Pectin	3.9	% DM	ECN Phyllis 2

Coconut	Coconut fibre		Proximates	Pectin	4.3	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Pectin	4	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Pectin	5.3	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Pectin	4.8	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Pectin	3	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Pectin	1.6	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Pectin	1.7	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Pectin	6.5	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Pectin	2.5	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Pectin	5.4	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Pectin	6.5	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Pectin	6.4	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Pectin	7.8	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Pectin	7	% DM	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Pectin	6	% DM	ECN Phyllis 2
Pears	Pear pomace		Proximates	Pectin	20.9	g/kg DM	Comparative study of alkaline extraction process of hemicelluloses from pear pomace

Citrus, unspecified	Citrus pulp, dried		Proximates	Pectin	223	g/kg DM	Citrus by-products as ruminant feeds: A review
Apple	Apple pomace, dried		Proximates	Pectin	3.5-14.2	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Potato	Potato peel		Proximates	Pectin	3-4	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Tomatoes	Tomato pomace		Proximates	Pectin	2	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals

Tomatoes	Tomato pomace	Pulper stage of tomato processing for paste. Espressed g galacturonic acid	Proximates	Pectin	15.25	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	Finisher stage of tomato processing for paste. Espressed g galacturonic acid	Proximates	Pectin	15.28	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	Before turbopress stage of tomato processing for paste. Espressed g galacturonic acid	Proximates	Pectin	17.97	g/kg	Chemical characterization of tomato pomace

Tomatoes	Tomato pomace	After turbopress stage of tomato processing for paste. Espressed g galacturonic acid	Proximates	Pectin	19.74	g/kg	Chemical characterizatio n of tomato pomace
Apple	Apple pomace		Proximates	Pectin yield	55.52	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Pectin yield	246.57	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Pectin yield	27.02	mg/g dry matter	NOSHAN
Apple	Apple cake		Proximates	Pectin yield	87.16	mg/g dry matter	NOSHAN
Cabbage	Cabbage		Proximates	Pectin yield	123.12	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Pectin yield	64.52	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Pectin yield	18.54	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Pectin yield	24.72	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Pectin yield	121.32	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Pectin yield	47.93	mg/g dry matter	NOSHAN

Cabbage	Cabbage	Sour	Proximates	Pectin yield	66.64	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Pectin yield	60.42	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Pectin yield	18.59	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Pectin yield	20.66	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Pectin yield	18.53	mg/g dry matter	NOSHAN
Soy	Soybean meal	Soya bean	Proximates	Pentosan, soluble	11	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed cake		Proximates	Pentosan, soluble	12	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Soy	Soybean meal	Soya bean	Proximates	Pentosan, total	29	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed cake		Proximates	Pentosan, total	36	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Grape	Grape pomace, dried	Air dried	Anthocyanins	Peonidin-3-coumaroyl glucoside	1231	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Anthocyanins	Peonidin-3-coumaroyl glucoside	796	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Anthocyanins	Peonidin-3-coumaroyl glucoside	994	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Air dried	Anthocyanins	Peonidin-3-glucoside	2044	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Anthocyanins	Peonidin-3-glucoside	1591	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Anthocyanins	Peonidin-3-glucoside	1870	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Peptides, other (not phosphoglycerate mutase or pyruvate decarboxylase isozyme)	31	%	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Undesirable components	Pesticides, fungicides, herbicides by GC-MS and LC-MS/MS	<LOQ	mg/kg	NOSHAN

Grape	Grape pomace, dried	Air dried	Anthocyanins	Petunidin-3-coumaroyl glucoside	806	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Anthocyanins	Petunidin-3-coumaroyl glucoside	765	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Anthocyanins	Petunidin-3-coumaroyl glucoside	735	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Air dried	Anthocyanins	Petunidin-3-glucoside	1618	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Anthocyanins	Petunidin-3-glucoside	1295	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Anthocyanins	Petunidin-3-glucoside	1390	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Orange	Orange peel	Orange	Waste compounds	Phellandren, beta	0.24	% in 0.6ml/100g	NOSHAN

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Simple phenols	Phenol	1.98	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Simple phenols	Phenol	1.44	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Simple phenols	Phenol	0.78	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Simple phenols	Phenol	2.34	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Grape	Grape pomace		Simple phenols	Phenolic acids	39.3	mg/100g	NOSHAN
Grape	Grape seeds	White, Italian	Simple phenols	Phenolics	90	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Red, Italian	Simple phenols	Phenolics	51	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Californian	Simple phenols	Phenolics	64	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Not ensiled	Simple phenols	Phenolics	66	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Ensiled for 45 days	Simple phenols	Phenolics	71	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	White, Italian	Simple phenols	Phenolics	62	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Red, Italian	Simple phenols	Phenolics	31	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Californian	Simple phenols	Phenolics	42	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Not ensiled	Simple phenols	Phenolics	38	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Ensiled for 45 days	Simple phenols	Phenolics	53	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Apple	Apple peel		Mixed compound classes	Phenolics, total	4.3	g/kg fw	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones
Grape	Grape pomace, dried	Air dried	Mixed compound classes	Phenolics, total	156999	ppm GAE DM	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Mixed compound classes	Phenolics, total	124630	ppm GAE DM	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Mixed compound classes	Phenolics, total	108311	ppm GAE DM	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Potato	Potato peel		Mixed compound classes	Phenolics, total	1-70	mg GAE/100g db	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones
Grape	Grape seeds and peels		Mixed compound classes	Phenolics, total	80	mg/g DW	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones

Hop	Hop leaves	Extract	Mixed compound classes	Phenolics, total	15	mg/g DW	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones
Blueberry	Blueberry pomace extract		Mixed compound classes	Phenolics, total	<2	mg GAE/ml	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones
Juices, unspecified	Juice pomace		Mixed compound classes	Phenolics, total	29.2	mg GAE/100ml	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones
Grape	Grape cane	Alphone Lavallee	Mixed compound classes	Phenolics, total	34.16	mg GAE/g	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Mixed compound classes	Phenolics, total	25.36	mg GAE/g	Chemical composition of grape canes

Grape	Grape cane	Cardinal	Mixed compound classes	Phenolics, total	28.2	mg GAE/g	Chemical composition of grape canes
Grape	Grape cane	Hafizali	Mixed compound classes	Phenolics, total	27.03	mg GAE/g	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Mixed compound classes	Phenolics, total	32.75	mg GAE/g	Chemical composition of grape canes
Grape	Grape cane	Isabella	Mixed compound classes	Phenolics, total	31.09	mg GAE/g	Chemical composition of grape canes
Grape	Grape cane	Italia	Mixed compound classes	Phenolics, total	31.65	mg GAE/g	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Mixed compound classes	Phenolics, total	30.44	mg GAE/g	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Mixed compound classes	Phenolics, total	32.69	mg GAE/g	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Mixed compound classes	Phenolics, total	36.56	mg GAE/g	Chemical composition of grape canes

Grape	Grape skins	White grape pomace skins, Muller Thurgau	Mixed compound classes	Phenolics, total	13.6	mg GAE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Mixed compound classes	Phenolics, total	11.5	mg GAE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Mixed compound classes	Phenolics, total	19.7	mg GAE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Mixed compound classes	Phenolics, total	21.7	mg GAE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Mixed compound classes	Phenolics, total	16.3	mg GAE/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Onion	Onion	cv. Sunpower	Mixed compound classes	Phenolics, total	5	GAE/kg dw	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones

Hop	Hop leaves	Extract	Mixed compound classes	Phenolics, total	30	mg GAE/100ml	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones
Sugar beet	Sugar beet leaves	Beta vulgaris	Mixed compound classes	Phenolics, total	2.9	% DM	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Mixed compound classes	Phenolics, total	5.9	% DM	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Mixed compound classes	Phenolics, total	5.9	% DM	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Mixed compound classes	Phenolics, total	10.3	% DM	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Mixed compound classes	Phenolics, total	4.8	% DM	Utilization of fruit and vegetable wastes, FAO

Melon	Muskmelon, peels	Cucumis melo	Mixed compound classes	Phenolics, total	0.7	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Mixed compound classes	Phenolics, total	1.4	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Mixed compound classes	Phenolics, total	4.3	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pomace		Mixed compound classes	Phenolics, total	4.3	%	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace, dried	Air dried	Simple phenols	Phenols, total	438984	ppm d.b.	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Simple phenols	Phenols, total	258663	ppm d.b.	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Simple phenols	Phenols, total	167661	ppm d.b.	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Olive	Olive mill effluent		Simple phenols	Phenols, total	2.61	kg m3 as caffeic acid	Bioenergy recovery from olive mill effluent in a hybrid reactor

Pork	Piggery effluent		Simple phenols	Phenols, total	0.38	kg m3 as caffeic acid	Bioenergy recovery from olive mill effluent in a hybrid reactor
Apple	Apple pomace		Proximates	Phenylalanine	1.93	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Phenylalanine	4.1	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Phenylalanine	3.61	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Phenylalanine	4.21	mg/g dry matter	NOSHAN
Canola	Canola meal		Proximates	Phenylalanine	13.3	mg/g dry matter	A comparative study on amino acid availability of moist heated canla meal for poultry vs. ruminants
Apple	Apple cake		Proximates	Phenylalanine	1.26	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Phenylalanine	14.45	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Phenylalanine	14.57	mg/g dry matter	NOSHAN

Cabbage	Cabbage		Proximates	Phenylalanine	2.69	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Phenylalanine	21.45	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Phenylalanine	17.44	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Phenylalanine	32.69	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Phenylalanine	4.97	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Phenylalanine	4.09	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Phenylalanine	8.02	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Phenylalanine	10.26	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Phenylalanine	10.15	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Phenylalanine	2.67	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Phenylalanine	1.7	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Phenylalanine	0.92	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Phenylalanine	2.48	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Phenylalanine	2.22	mg/g dry matter	NOSHAN

Rape	Rapeseed press cake		Proximates	Phenylalanine	10.78	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Phenylalanine	2.08	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Phenylalanine	3.82	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Phenylalanine	0.91	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Phenylalanine	0.93	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Phenylalanine	1.23	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Phenylalanine	11.59	mg/g dry matter	NOSHAN
Canola	Canola meal	Average of analysed values	Proximates	Phenylalanine	14.5	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities

Rape	Rapeseed hulls	Purified	Proximates	Phenylalanine	6.1	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Fish, unspecified	Fish meal		Proximates	Phenylalanine	29.9	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Phenylalanine	24.3	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Phenylalanine	23.4	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Phenylalanine	15.6	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Phenylalanine	20.2	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Cabbage	Cabbage meal		Proximates	Phenylalanine	7.4	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Citrus, unspecified	Citrus pulp, dried		Proximates	Phenylalanine	2.50	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Phenylalanine	2.0	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Phenylalanine	12.9	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Phenylalanine	17.1	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Canola	Juncea canola meal		Proximates	Phenylalanine	15.5	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Rye	Seed residue		Proximates	Phenylalanine	4.86	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Phenylalanine	3.83	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Phenylalanine	5.25	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Phenylalanine	5.07	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Phenylalanine	3.81	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Sugar beet	Sugar beet pulp		Proximates	Phenylalanine	3.76	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Phenylalanine	4.35	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Phenylalanine	4.89	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Distillery by-products, unspecified	Distillers solids		Proximates	Phenylalanine	61	g/160g nitrogen	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Barley	Barley		Proximates	Phenylalanine	56	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Soy	Soybean meal	Soyabean meal	Proximates	Phenylalanine	88	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Phenylalanine	57	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs

Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Phenylalanine	56.9	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Phenylalanine	53.3	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Phenylalanine	3.02	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Phenylalanine	2.93	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Phenylalanine	2.81	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Phenylalanine	1.6	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Phenylalanine	5.34	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Phenylalanine	5.83	% protein	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Phenylalanine	5.03	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Phenylalanine	4.54	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Phenylalanine	4.14	% protein	Chemical characterization of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Phenylalanine	5.4	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Phenylalanine	4.4	% protein	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Phenylalanine	4.4	% protein	Feedipedia

Palm	Oil palm leaflets	Fresh	Proximates	Phenylalanine	4.7	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Phenylalanine	4.6	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Phenylalanine	4.8	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Phenylalanine	5.3	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Phenylalanine	5.9	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Phenylalanine	5	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Phenylalanine	3.1	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Phenylalanine	4.8	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Phenylalanine	4.6	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Phenylalanine	4.8	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Phenylalanine	4.6	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Phenylalanine	4.6	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Phenylalanine	4.4	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Phenylalanine	4.4	% protein	Feedipedia

Rice	Rice bran	Defatted, fibre <11%	Proximates	Phenylalanine	4.9	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Phenylalanine	4.7	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Phenylalanine	4.8	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Phenylalanine	4.9	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Phenylalanine	5.1	% protein	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Phenylalanine	3.2	% protein	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Phenylalanine	4.8	% protein	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Phenylalanine	4.1	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Phenylalanine	5.3	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Phenylalanine	5.5	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Phenylalanine	5.1	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Phenylalanine	4.7	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Phenylalanine	4.8	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Phenylalanine	3.9	% protein	Feedipedia

Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Phenylalanine	4.5	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Phenylalanine	4.4	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Phenylalanine	3.3	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Phenylalanine	4.5	% protein	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Phenylalanine	4.3	% protein	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Phenylalanine	3.7	% protein	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Phenylalanine	4.7	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Phenylalanine	4.4	% protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Phenylalanine	4.1	% protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Phenylalanine	2.6	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Phenylalanine	5.2	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Phenylalanine	5.1	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Phenylalanine	5.2	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Phenylalanine	5.1	% protein	Feedipedia

Grape	Grape seeds		Proximates	Phenylalanine	2.8	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Phenylalanine	4.8	% protein	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Phenylalanine	5.2	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Phenylalanine	5.4	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Phenylalanine	4	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Phenylalanine	4.2	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Phenylalanine	4.1	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Phenylalanine	3.6	% protein	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Phenylalanine	3.7	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Phenylalanine	3.9	% protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Phenylalanine	4.2	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Phenylalanine	3.2	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Phenylalanine	3.9	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Phenylalanine	5.4	% protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Phenylalanine	3.9	% protein	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Phenylalanine	4.8	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Phenylalanine	5	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Phenylalanine	5	% protein	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Phenylalanine	4.3	% protein	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Phenylalanine	3.8	% protein	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Phenylalanine	3.3	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Phenylalanine	0.4	% protein	Feedipedia
Pumpkin	Pumpkin seeds	Cucurbita sp.	Proximates	Phenylalanine	4.3	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Phenylalanine	3.9	% protein	Feedipedia

Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Phenylalanine	4	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Phenylalanine	3.9	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Phenylalanine	4.3	% protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Phenylalanine	3.2	% protein	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Phenylalanine	5.2	% protein	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Phenylalanine	4.3	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Phenylalanine	4.5	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Phenylalanine	4.2	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Phenylalanine	4	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Phenylalanine	3.6	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Phenylalanine	5	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Phenylalanine	5.1	% protein	Feedipedia

Soy	Soybean meal	High oil (expeller)	Proximates	Phenylalanine	5.1	% protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Phenylalanine	5	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Phenylalanine	5	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Phenylalanine	5.1	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Phenylalanine	5	% protein	Feedipedia
Sunflower	Sunflower screenings		Proximates	Phenylalanine	3.7	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Phenylalanine	4.4	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Phenylalanine	4.4	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Phenylalanine	4.4	% protein	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Phenylalanine	4.3	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Phenylalanine	4.4	% protein	Feedipedia

Tomatoes	Tomato oil cake		Proximates	Phenylalanine	3.8	% protein	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Phenylalanine	3.3	% protein	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Phenylalanine	2.8	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Phenylalanine	6.1	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Phenylalanine	4.3	% protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Phenylalanine	2.3	% protein	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Phenylalanine	2.1	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Phenylalanine	3	% protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Phenylalanine	5.2	% protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Phenylalanine	3.3	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Phenylalanine	2.3	% protein	Feedipedia

Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Phenylalanine	4.9	% protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Phenylalanine	4	% protein	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Phenylalanine	8.5	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Phenylalanine	3.2	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Phenylalanine	0.4	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Phenylalanine	3.9	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Phenylalanine	3.8	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Phenylalanine	3.8	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Phenylalanine	3.4	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Phenylalanine	4.1	% protein	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Phenylalanine	2.2	% protein	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Phenylalanine	6	% protein	Feedipedia

Potato	Sweet potato, aerial part	Fresh	Proximates	Phenylalanine	5.1	% protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Phenylalanine	5.7	% protein	Feedipedia
Potato	Sweet potato leaf protein concentrate		Proximates	Phenylalanine	6.2	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Phenylalanine	5.9	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Phenylalanine	3.8	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Phenylalanine	0.4	% protein	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Phenylalanine	4.9	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Phenylalanine	3.5	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Phenylalanine	0.2	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Phenylalanine	0.1	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Phenylalanine	1.4	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Phenylalanine	4.5	% protein	Feedipedia

Animal by-products, unspecified	Blood meal		Proximates	Phenylalanine	6.9	% protein	Feedipedia
Animal by-products, unspecified	Blood meal	Chicken	Proximates	Phenylalanine	5.7	% protein	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Phenylalanine	2.2	% protein	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Phenylalanine	8.6	% protein	Feedipedia
Poultry	Feather meal		Proximates	Phenylalanine	4.7	% protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Phenylalanine	3.8	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Phenylalanine	3.9	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Phenylalanine	4	% protein	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Phenylalanine	4	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Phenylalanine	3.4	% protein	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Phenylalanine	2.1	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Phenylalanine	3.8	% protein	Feedipedia
Poultry	Hatchery by product		Proximates	Phenylalanine	3.5	% protein	Feedipedia

Beef	Cattle hoof and horn meal		Proximates	Phenylalanine	3.4	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Phenylalanine	2.1	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Phenylalanine	2.1	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Phenylalanine	4.8	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Phenylalanine	4.7	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Poultry	Proximates	Phenylalanine	4.4	% protein	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Phenylalanine	0	% protein	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Phenylalanine	2.8	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Phenylalanine	3.4	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Phenylalanine	3.5	% protein	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Phenylalanine	3.9	% protein	Feedipedia

Beef	Rumen content	Dehydrated	Proximates	Phenylalanine	3.3	% protein	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Phenylalanine	5.8	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Phenylalanine	7.5	% protein	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Phenylalanine	4.6	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Phenylalanine	3.5	% protein	Feedipedia
Snail	Snail meal	Without shells	Proximates	Phenylalanine	6.3	% protein	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Phenylalanine	4.4	% protein	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Phenylalanine	4	% protein	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Phenylalanine	4	% protein	Feedipedia
Whale	Whale meal		Proximates	Phenylalanine	4.4	% protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Phenylalanine	2.9	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Phenylalanine	2.5	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Phenylalanine	3.6	% protein	Feedipedia

Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Phenylalanine	4.3	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Phenylalanine	3.7	% protein	Feedipedia
Hop	Hops		Proximates	Phenylalanine	0.21	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Phenylalanine	0.42	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Phenylalanine	1.69	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Phenylalanine	2.45	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Phenylalanine	0.55	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Phenylalanine	2.19	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Phenylalanine	0.18	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Phenylalanine	0.44	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Phenylalanine	0.66	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Phenylalanine	0.12	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Phenylalanine	0	mg/g DM	NOSHAN
Apple	Apple pomace		Proximates	Phenylalanine	2.31	% D AA	NOSHAN
Orange	Orange peel	Orange	Proximates	Phenylalanine	3.61	% D AA	NOSHAN
Cheese	Whey	Milk	Proximates	Phenylalanine	0	% D AA	NOSHAN
Hop	Hops		Proximates	Phenylalanine	1.65	% D AA	NOSHAN

Apple	Apple cake		Proximates	Phenylalanine	0	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Phenylalanine	0.79	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Phenylalanine	2.89	% D AA	NOSHAN
Cabbage	Cabbage		Proximates	Phenylalanine	0	% D AA	NOSHAN
Cheese	Cheese	Hard	Proximates	Phenylalanine	2.59	% D AA	NOSHAN
Cheese	Cheese	Soft	Proximates	Phenylalanine	2.53	% D AA	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Phenylalanine	4	% D AA	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Phenylalanine	2.39	% D AA	NOSHAN
Grape	Grape pomace		Proximates	Phenylalanine	3.63	% D AA	NOSHAN
Barley	Malted barley germs		Proximates	Phenylalanine	3.81	% D AA	NOSHAN
Barley	Malted barley germs		Proximates	Phenylalanine	4.02	% D AA	NOSHAN
Mushrooms	Mushrooms		Proximates	Phenylalanine	4.79	% D AA	NOSHAN
Olive	Olive pomace		Proximates	Phenylalanine	2.04	% D AA	NOSHAN
Onion	Onion hulls		Proximates	Phenylalanine	2.81	% D AA	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Phenylalanine	6.5	% D AA	NOSHAN
Potato	Potato	Selected	Proximates	Phenylalanine	4.86	% D AA	NOSHAN
Potato	Potato skin		Proximates	Phenylalanine	0	% D AA	NOSHAN
Rape	Rapeseed press cake		Proximates	Phenylalanine	3.42	% D AA	NOSHAN

Cabbage	Cabbage	Sour	Proximates	Phenylalanine	2.86	% D AA	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Phenylalanine	2.57	% D AA	NOSHAN
Tomatoes	Tomato skin		Proximates	Phenylalanine	1.39	% D AA	NOSHAN
Apple	Apple	Whole	Proximates	Phenylalanine	0	% D AA	NOSHAN
Pears	Pear	Whole	Proximates	Phenylalanine	0	% D AA	NOSHAN
Yoghurt	Yoghurt		Proximates	Phenylalanine	2.54	% D AA	NOSHAN
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Phenylalanine	14.9	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Phenylalanine	3.99	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Phenylalanine	4.32	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Saltwater fish silage	Acid	Proximates	Phenylalanine	4.08	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Phenylalanine	5.02	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Phenylalanine	4.07	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Phenylalanine	4.26	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Phenylalanine	3.76	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Tilapia	Tilapia residue silage	Fermented	Proximates	Phenylalanine	3.63	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Phenylalanine	3.35	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Phenylalanine	133.51	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Phenylalanine	175.45	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Canola	Juncea canola meal		Glucosinolates	Phenylethyl	0.12	µmol/g	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Phosphoglycerate mutase	17	%	NOSHAN
Apple	Apple pomace	Wet	Inorganics	Phosphorus	0.2	%	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Dried	Inorganics	Phosphorus	0.10-0.12	%	Handbook of poultry feed from waste: processing and use
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Inorganics	Phosphorus	0.68	%	Wet brewers' grains for beef cattle

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Inorganics	Phosphorus	6	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Pineapple	Pineapple waste		Inorganics	Phosphorus	110	mg %TS	Cropgen database
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Inorganics	Phosphorus	7.1	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Nuts, unspecified	Nut meal	Babacu	Inorganics	Phosphorus	6.9	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Nuts, unspecified	Nut meal	Cashew	Inorganics	Phosphorus	4.7	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cassava	Cassava meal		Inorganics	Phosphorus	0.5	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Inorganics	Phosphorus	6.6	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Corn	Corn gluten meal		Inorganics	Phosphorus	5.3	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cotton	Cottonseed meal	solv	Inorganics	Phosphorus	10.8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Inorganics	Phosphorus	2.8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Animal by-products, unspecified	Meat and bone meal		Inorganics	Phosphorus	63.1	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Rice	Rice bran	Defatted	Inorganics	Phosphorus	21	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Inorganics	Phosphorus	6.1	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Sugar cane	Sugar cane juice		Inorganics	Phosphorus	0.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Inorganics	Phosphorus	6.3	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Wheat	Wheat bran		Inorganics	Phosphorus	9.1	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Canola	Canola meal	Average of analysed values	Inorganics	Phosphorus	11.2	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Distillers grain	Distillers grain	Maize, dried, with soluble	Inorganics	Phosphorus	8	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Wheat	Wheat grain	Distillers', dried, with soluble	Inorganics	Phosphorus	9.2	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Grape	Grape seeds	White, Italian	Inorganics	Phosphorus	3.1	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Red, Italian	Inorganics	Phosphorus	3.2	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Californian	Inorganics	Phosphorus	3.2	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Not ensiled	Inorganics	Phosphorus	3.2	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Ensiled for 45 days	Inorganics	Phosphorus	3	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	White, Italian	Inorganics	Phosphorus	3	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Red, Italian	Inorganics	Phosphorus	2.7	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Californian	Inorganics	Phosphorus	2.9	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Not ensiled	Inorganics	Phosphorus	2.7	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Ensiled for 45 days	Inorganics	Phosphorus	2.9	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Citrus, unspecified	Citrus pulp silage		Inorganics	Phosphorus	1.5	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus meal, dried		Inorganics	Phosphorus	1.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Phosphorus	1.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Phosphorus	1.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Phosphorus	1.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Phosphorus	1.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange peel	Fresh	Inorganics	Phosphorus	1.7	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp, dried		Inorganics	Phosphorus	3.4	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Inorganics	Phosphorus	1.5	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Inorganics	Phosphorus	8.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Inorganics	Phosphorus	10.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Inorganics	Phosphorus	12	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Inorganics	Phosphorus	12.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Inorganics	Phosphorus	10.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Inorganics	Phosphorus	10.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Inorganics	Phosphorus	11.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Inorganics	Phosphorus	10.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Inorganics	Phosphorus	11.7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Citrus, unspecified	Citrus molasses	Condensed solubles	Inorganics	Phosphorus	1.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillery by-products, unspecified	Distillers solubles	Citrus molasses	Inorganics	Phosphorus	1.9	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Phosphorus	1.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried	Ammoniated	Inorganics	Phosphorus	1.4	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus molasses		Inorganics	Phosphorus	1.4	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Inorganics	Phosphorus	1.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus seed meal	Mechanical extract	Inorganics	Phosphorus	7.5	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses	Ammoniated	Inorganics	Phosphorus	2.6	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp		Inorganics	Phosphorus	1.5	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange		Inorganics	Phosphorus	1.3	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp	Wet	Inorganics	Phosphorus	2.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange by-product, dried		Inorganics	Phosphorus	1.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Inorganics	Phosphorus	1.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Tangerine	Inorganics	Phosphorus	1.4	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillery by-products, unspecified	Distillers solids		Inorganics	Phosphorus	9.3	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Rice	Rice, aerial part	Fresh	Inorganics	Phosphorus	1.6	g/kg DM	Feedipedia
Rice	Rice straw		Inorganics	Phosphorus	0.9	g/kg DM	Feedipedia
Rice	Rice straw	Urea-treated	Inorganics	Phosphorus	1.5	g/kg DM	Feedipedia

Rice	Rice straw	NaOH-treated	Inorganics	Phosphorus	0.4	g/kg DM	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Inorganics	Phosphorus	1.1	g/kg DM	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Inorganics	Phosphorus	1.1	g/kg DM	Feedipedia
Wheat	Triticale grain		Inorganics	Phosphorus	3.9	g/kg DM	Feedipedia
Wheat	Triticale straw		Inorganics	Phosphorus	0.3	g/kg DM	Feedipedia
Wheat	Wheat straw		Inorganics	Phosphorus	0.7	g/kg DM	Feedipedia
Wheat	Wheat forage	Fresh	Inorganics	Phosphorus	2.6	g/kg DM	Feedipedia
Palm	Oil palm fronds	Fresh	Inorganics	Phosphorus	1.1	g/kg DM	Feedipedia
Palm	Oil palm leaflets	Fresh	Inorganics	Phosphorus	1.8	g/kg DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Inorganics	Phosphorus	3.3	g/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Inorganics	Phosphorus	9.7	g/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Inorganics	Phosphorus	6.5	g/kg DM	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Inorganics	Phosphorus	19	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Inorganics	Phosphorus	5.7	g/kg DM	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Inorganics	Phosphorus	5.8	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Inorganics	Phosphorus	8	g/kg DM	Feedipedia
Rice	Rice grain	Polished	Inorganics	Phosphorus	3.2	g/kg DM	Feedipedia
Rice	Rice grain	Polished, parboiled	Inorganics	Phosphorus	1.6	g/kg DM	Feedipedia
Rice	Rice grain	Brown	Inorganics	Phosphorus	2.6	g/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Inorganics	Phosphorus	6.1	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Inorganics	Phosphorus	4.2	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Inorganics	Phosphorus	9.6	g/kg DM	Feedipedia
Rice	Rice bran	Fibre <4%	Inorganics	Phosphorus	13.9	g/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Inorganics	Phosphorus	17	g/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Inorganics	Phosphorus	13.8	g/kg DM	Feedipedia
Rice	Rice bran	Fibre >20%	Inorganics	Phosphorus	7.4	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Inorganics	Phosphorus	12.1	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Inorganics	Phosphorus	19.2	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Inorganics	Phosphorus	4.9	g/kg DM	Feedipedia

Rice	Rice hull		Inorganics	Phosphorus	1.1	g/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Inorganics	Phosphorus	2.9	g/kg DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Inorganics	Phosphorus	4.9	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Inorganics	Phosphorus	8.1	g/kg DM	Feedipedia
Distillers grain	Distillers grain	Fresh, Sorghum, with or without solubles	Inorganics	Phosphorus	8.7	g/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Inorganics	Phosphorus	7.4	g/kg DM	Feedipedia
Sorghum	Sorghum gluten feed		Inorganics	Phosphorus	1.7	g/kg DM	Feedipedia
Sorghum	Sorghum gluten meal		Inorganics	Phosphorus	1.7	g/kg DM	Feedipedia
Sorghum	Sorghum germ oil meal		Inorganics	Phosphorus	0.4	g/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Inorganics	Phosphorus	3.3	g/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Inorganics	Phosphorus	3.4	g/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Inorganics	Phosphorus	2.8	g/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Inorganics	Phosphorus	3.8	g/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Inorganics	Phosphorus	4.1	g/kg DM	Feedipedia

Wheat	Wheat bran		Inorganics	Phosphorus	11.1	g/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Inorganics	Phosphorus	9.1	g/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Inorganics	Phosphorus	8.5	g/kg DM	Feedipedia
Wheat	Wheat germs		Inorganics	Phosphorus	10.9	g/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Inorganics	Phosphorus	1.2	g/kg DM	Feedipedia
Wheat	Wheat grain		Inorganics	Phosphorus	3.6	g/kg DM	Feedipedia
Wheat	Wheat grain	Durum	Inorganics	Phosphorus	4.3	g/kg DM	Feedipedia
Wheat	Wheat screenings		Inorganics	Phosphorus	4.2	g/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Almond	Inorganics	Phosphorus	5.2	g/kg DM	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Inorganics	Phosphorus	2	g/kg DM	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Inorganics	Phosphorus	0.7	g/kg DM	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Inorganics	Phosphorus	6.4	g/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Inorganics	Phosphorus	4.8	g/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Inorganics	Phosphorus	12	g/kg DM	Feedipedia

Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Inorganics	Phosphorus	3	g/kg DM	Feedipedia
Castor	Castor hulls	Ricinus communis	Inorganics	Phosphorus	6.5	g/kg DM	Feedipedia
Castor	Castor oil meal	Ricinus communis	Inorganics	Phosphorus	9.4	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Inorganics	Phosphorus	4.4	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Inorganics	Phosphorus	7.4	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Inorganics	Phosphorus	3.4	g/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Inorganics	Phosphorus	5.8	g/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Inorganics	Phosphorus	6.5	g/kg DM	Feedipedia
Coconut	Coconut copra	Fresh	Inorganics	Phosphorus	2.6	g/kg DM	Feedipedia
Coconut	Coconut water		Inorganics	Phosphorus	38.5	g/kg DM	Feedipedia
Cotton	Cotton straw		Inorganics	Phosphorus	2.9	g/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Inorganics	Phosphorus	13.1	g/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Inorganics	Phosphorus	12.4	g/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Inorganics	Phosphorus	11.9	g/kg DM	Feedipedia

Cotton	Cottonseed meal	High fibre, low oil	Inorganics	Phosphorus	12.2	g/kg DM	Feedipedia
Flax/linseed	Flax straw		Inorganics	Phosphorus	0.5	g/kg DM	Feedipedia
Flax/linseed	Flax chaff		Inorganics	Phosphorus	1.7	g/kg DM	Feedipedia
Flax/linseed	Flax shives		Inorganics	Phosphorus	1	g/kg DM	Feedipedia
Flax/linseed	Flax hay		Inorganics	Phosphorus	1.8	g/kg DM	Feedipedia
Grape	Grape seeds		Inorganics	Phosphorus	2.1	g/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Inorganics	Phosphorus	2.1	g/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Inorganics	Phosphorus	2.7	g/kg DM	Feedipedia
Flax/linseed	Linseed meal		Inorganics	Phosphorus	9	g/kg DM	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Inorganics	Phosphorus	9.6	g/kg DM	Feedipedia
Flax/linseed	Linseeds		Inorganics	Phosphorus	6.3	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Inorganics	Phosphorus	5.5	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Inorganics	Phosphorus	6.3	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Inorganics	Phosphorus	9.3	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Inorganics	Phosphorus	5.7	g/kg DM	Feedipedia
Corn	Maize germ	Oil <30%	Inorganics	Phosphorus	13.9	g/kg DM	Feedipedia
Corn	Maize germ	Oil >30%	Inorganics	Phosphorus	2.2	g/kg DM	Feedipedia

Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Inorganics	Phosphorus	11.1	g/kg DM	Feedipedia
Mustard	Mustard seeds	Brassica sp.	Inorganics	Phosphorus	6	g/kg DM	Feedipedia
Palm	Oil palm kernels		Inorganics	Phosphorus	3.4	g/kg DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Inorganics	Phosphorus	0.8	g/kg DM	Feedipedia
Olive	Olive oil cake	Crude, without stones	Inorganics	Phosphorus	1.3	g/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Inorganics	Phosphorus	1.1	g/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Inorganics	Phosphorus	2.2	g/kg DM	Feedipedia
Olive	Olive oil pulp	Crude	Inorganics	Phosphorus	1.5	g/kg DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Inorganics	Phosphorus	1.6	g/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Inorganics	Phosphorus	6	g/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Inorganics	Phosphorus	6.6	g/kg DM	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Inorganics	Phosphorus	14.4	g/kg DM	Feedipedia
Palm	Palm press fibre	High oil	Inorganics	Phosphorus	3.6	g/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Inorganics	Phosphorus	1.5	g/kg DM	Feedipedia

Nuts, unspecified	Nut crop residues	Peanut, fresh	Inorganics	Phosphorus	2	g/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Inorganics	Phosphorus	0.7	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Inorganics	Phosphorus	6.9	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Inorganics	Phosphorus	6.1	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Inorganics	Phosphorus	6.3	g/kg DM	Feedipedia
Peanuts	Peanuts	Without shells	Inorganics	Phosphorus	4.6	g/kg DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Inorganics	Phosphorus	2.9	g/kg DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Inorganics	Phosphorus	1.5	g/kg DM	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Inorganics	Phosphorus	14	g/kg DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Inorganics	Phosphorus	10	g/kg DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Inorganics	Phosphorus	9.8	g/kg DM	Feedipedia

Pumpkin	Pumpkin	Fruits, fresh, Cucurbita sp.	Inorganics	Phosphorus	2.6	g/kg DM	Feedipedia
Pumpkin	Pumpkin crop by-product	Fresh, Cucurbita sp.	Inorganics	Phosphorus	5	g/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Inorganics	Phosphorus	17.8	g/kg DM	Feedipedia
Rape	Rape forage	Fresh	Inorganics	Phosphorus	3.6	g/kg DM	Feedipedia
Rape	Rape straw		Inorganics	Phosphorus	0.9	g/kg DM	Feedipedia
Rape	Rapeseed hulls		Inorganics	Phosphorus	2.5	g/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Inorganics	Phosphorus	12.7	g/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Inorganics	Phosphorus	11.9	g/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Inorganics	Phosphorus	11.6	g/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Inorganics	Phosphorus	7.3	g/kg DM	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Inorganics	Phosphorus	6.7	g/kg DM	Feedipedia

Safflower	Safflower meal	Without hulls, expeller extraction. Carthamus tinctorius	Inorganics	Phosphorus	11	g/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Inorganics	Phosphorus	12.6	g/kg DM	Feedipedia
Sesame	Sesame meal	Solvent extraction	Inorganics	Phosphorus	4.6	g/kg DM	Feedipedia
Sesame	Sesame seeds	Whole	Inorganics	Phosphorus	6.2	g/kg DM	Feedipedia
Soy	Soybean, aerial part	Fresh	Inorganics	Phosphorus	2.7	g/kg DM	Feedipedia
Soy	Soybean hay		Inorganics	Phosphorus	1.9	g/kg DM	Feedipedia
Soy	Soybean hulls		Inorganics	Phosphorus	13.8	g/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Inorganics	Phosphorus	6.9	g/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Inorganics	Phosphorus	7.6	g/kg DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Inorganics	Phosphorus	7.2	g/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Inorganics	Phosphorus	6.1	g/kg DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Inorganics	Phosphorus	6.8	g/kg DM	Feedipedia

Soy	Soybeans	Toasted	Inorganics	Phosphorus	5.9	g/kg DM	Feedipedia
Soy	Soybeans	Extruded	Inorganics	Phosphorus	6.2	g/kg DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Inorganics	Phosphorus	3.1	g/kg DM	Feedipedia
Sunflower	Sunflower forage	Silage	Inorganics	Phosphorus	2.8	g/kg DM	Feedipedia
Sunflower	Sunflower stover (stalks and heads)		Inorganics	Phosphorus	0.8	g/kg DM	Feedipedia
Sunflower	Sunflower heads	Without seeds	Inorganics	Phosphorus	3.7	g/kg DM	Feedipedia
Sunflower	Sunflower stalks		Inorganics	Phosphorus	2.6	g/kg DM	Feedipedia
Sunflower	Sunflower hulls		Inorganics	Phosphorus	1.3	g/kg DM	Feedipedia
Sunflower	Sunflower screenings		Inorganics	Phosphorus	2.5	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Inorganics	Phosphorus	11.6	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Inorganics	Phosphorus	13	g/kg DM	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Inorganics	Phosphorus	11.1	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Inorganics	Phosphorus	9.2	g/kg DM	Feedipedia
Sunflower	Sunflower seeds		Inorganics	Phosphorus	6	g/kg DM	Feedipedia
Tomatoes	Tomato oil cake		Inorganics	Phosphorus	5.9	g/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Walnut (Juglans regia)	Inorganics	Phosphorus	2.8	g/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Inorganics	Phosphorus	9.9	g/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, high fibre	Inorganics	Phosphorus	5.8	g/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Inorganics	Phosphorus	1.4	g/kg DM	Feedipedia
Apple	Apple pomace	Fresh	Inorganics	Phosphorus	1.1	g/kg DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Inorganics	Phosphorus	0.9	g/kg DM	Feedipedia

Banana	Banana fruits	Immature, fresh	Inorganics	Phosphorus	0.9	g/kg DM	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Inorganics	Phosphorus	1	g/kg DM	Feedipedia
Banana	Banana fruits	Immature, without peel, fresh	Inorganics	Phosphorus	0.8	g/kg DM	Feedipedia
Banana	Banana fruits, dried	Immature, without peel, dehydrated	Inorganics	Phosphorus	0.9	g/kg DM	Feedipedia
Plantain	Plantain banana fruits, dried	Dehydrated	Inorganics	Phosphorus	0.7	g/kg DM	Feedipedia
Banana	Banana shoots	Fresh	Inorganics	Phosphorus	2.6	g/kg DM	Feedipedia
Plantain	Plantain banana trunk	Fresh	Inorganics	Phosphorus	0.9	g/kg DM	Feedipedia
Banana	Banana leaves, dried	Dehydrated	Inorganics	Phosphorus	2.4	g/kg DM	Feedipedia
Banana	Banana stalks	Fresh	Inorganics	Phosphorus	2.9	g/kg DM	Feedipedia
Plantain	Plantain banana leaves	Fresh	Inorganics	Phosphorus	1.2	g/kg DM	Feedipedia
Banana	Banana peel	Mature, fresh	Inorganics	Phosphorus	1	g/kg DM	Feedipedia
Banana	Banana peel	Immature, fresh	Inorganics	Phosphorus	1	g/kg DM	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Inorganics	Phosphorus	1.2	g/kg DM	Feedipedia

Plantain	Plantain banana peel	Immature, fresh	Inorganics	Phosphorus	1.2	g/kg DM	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Inorganics	Phosphorus	2	g/kg DM	Feedipedia
Citrus, unspecified	Citrus, dried	Fruits, dried	Inorganics	Phosphorus	0.9	g/kg DM	Feedipedia
Orange	Orange	Fruits, fresh	Inorganics	Phosphorus	2.3	g/kg DM	Feedipedia
Grapefruit	Grapefruit	Fruits (Citrus paradisi), fresh	Inorganics	Phosphorus	1.6	g/kg DM	Feedipedia
Citrus, unspecified	Citrus molasses		Inorganics	Phosphorus	0.8	g/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Inorganics	Phosphorus	1	g/kg DM	Feedipedia
Orange	Orange pulp	Fresh	Inorganics	Phosphorus	1.6	g/kg DM	Feedipedia
Lemon	Lemon pulp	Fresh	Inorganics	Phosphorus	1.9	g/kg DM	Feedipedia
Orange	Orange peel	Orange, fresh	Inorganics	Phosphorus	1.2	g/kg DM	Feedipedia
Orange	Orange peel silage	Orange	Inorganics	Phosphorus	1	g/kg DM	Feedipedia
Lime	Lime seeds	Lime (Citrus aurantiifolia)	Inorganics	Phosphorus	3	g/kg DM	Feedipedia
Coffee	Coffee hulls		Inorganics	Phosphorus	1.4	g/kg DM	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Inorganics	Phosphorus	1.3	g/kg DM	Feedipedia
Coffee	Instant coffee by product		Inorganics	Phosphorus	0.3	g/kg DM	Feedipedia

Coffee	Coffee oil meal	By product of essential oil extraction	Inorganics	Phosphorus	0.6	g/kg DM	Feedipedia
Coffee	Coffee leaves		Inorganics	Phosphorus	1.2	g/kg DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Inorganics	Phosphorus	0.8	g/kg DM	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Inorganics	Phosphorus	6.1	g/kg DM	Feedipedia
Date	Date palm leaves, dried	Dry	Inorganics	Phosphorus	1	g/kg DM	Feedipedia
Grape	Grape pomace	Dehydrated	Inorganics	Phosphorus	2.6	g/kg DM	Feedipedia
Grape	Grape pomace	Fresh	Inorganics	Phosphorus	2.7	g/kg DM	Feedipedia
Melon	Melon	Aerial part, fresh. Cucumis melo	Inorganics	Phosphorus	6.8	g/kg DM	Feedipedia
Melon	Melon	Fruit, fresh. Cucumis melo	Inorganics	Phosphorus	4.4	g/kg DM	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Inorganics	Phosphorus	1.3	g/kg DM	Feedipedia
Tomatoes	Tomato, leaves	Fresh	Inorganics	Phosphorus	2.1	g/kg DM	Feedipedia

Melon	Watermelon	Aerial part, fresh. Citrullus lanatus	Inorganics	Phosphorus	4.6	g/kg DM	Feedipedia
Melon	Watermelon	Fruit, fresh. Citrullus lanatus	Inorganics	Phosphorus	2.9	g/kg DM	Feedipedia
Sugar beet	Sugar beet molasses		Inorganics	Phosphorus	0.3	g/kg DM	Feedipedia
Carrot	Carrot	Roots, fresh	Inorganics	Phosphorus	2.9	g/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Inorganics	Phosphorus	3.6	g/kg DM	Feedipedia
Carrot	Carrot tops	Fresh	Inorganics	Phosphorus	4.5	g/kg DM	Feedipedia
Potato	Potato leaves, dried	Dried	Inorganics	Phosphorus	1.4	g/kg DM	Feedipedia
Potato	Potato peel	Fresh	Inorganics	Phosphorus	2.6	g/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Inorganics	Phosphorus	2.2	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Inorganics	Phosphorus	1	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Inorganics	Phosphorus	0.9	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Inorganics	Phosphorus	1.1	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Inorganics	Phosphorus	1	g/kg DM	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Inorganics	Phosphorus	2.3	g/kg DM	Feedipedia

Sugar beet	Sugar beet leaves and tops	Fresh	Inorganics	Phosphorus	1.9	g/kg DM	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Inorganics	Phosphorus	3.7	g/kg DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Inorganics	Phosphorus	2.9	g/kg DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Inorganics	Phosphorus	3.1	g/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Inorganics	Phosphorus	1.5	g/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Inorganics	Phosphorus	1.6	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Inorganics	Phosphorus	0.6	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Inorganics	Phosphorus	0.8	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Urea-treated, dehydrated	Inorganics	Phosphorus	0.3	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse pith		Inorganics	Phosphorus	0.4	g/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Inorganics	Phosphorus	0.7	g/kg DM	Feedipedia

Sugar cane	Sugar cane, syrup-off		Inorganics	Phosphorus	0.7	g/kg DM	Feedipedia
Sugar cane	Sugar cane mud	Rotary-filter mud	Inorganics	Phosphorus	11.1	g/kg DM	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Inorganics	Phosphorus	1.2	g/kg DM	Feedipedia
Sugar cane	Sugar cane tops	Silage	Inorganics	Phosphorus	3.7	g/kg DM	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Inorganics	Phosphorus	2.3	g/kg DM	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Inorganics	Phosphorus	6.1	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Inorganics	Phosphorus	1.8	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Inorganics	Phosphorus	4.2	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Inorganics	Phosphorus	4.9	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Inorganics	Phosphorus	2.1	g/kg DM	Feedipedia
Pork	Hog hair meal	Hydrolysed	Inorganics	Phosphorus	1.4	g/kg DM	Feedipedia

Animal by-products, unspecified	Blood meal		Inorganics	Phosphorus	2.2	g/kg DM	Feedipedia
Animal by-products, unspecified	Blood	Fresh	Inorganics	Phosphorus	4.1	g/kg DM	Feedipedia
Animal by-products, unspecified	Blood	Chicken, fresh	Inorganics	Phosphorus	5.6	g/kg DM	Feedipedia
Animal by-products, unspecified	Blood	Moist	Inorganics	Phosphorus	4	g/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Calcinated	Inorganics	Phosphorus	140.2	g/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Inorganics	Phosphorus	100	g/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Inorganics	Phosphorus	150	g/kg DM	Feedipedia
Crab	Crab meal, dried	Dehydrated	Inorganics	Phosphorus	14.8	g/kg DM	Feedipedia
Crab	Crab meal	Fresh	Inorganics	Phosphorus	11	g/kg DM	Feedipedia
Crab	Crab shells	Ground	Inorganics	Phosphorus	15.2	g/kg DM	Feedipedia
Eggs	Eggshells		Inorganics	Phosphorus	1.6	g/kg DM	Feedipedia
Poultry	Feather meal		Inorganics	Phosphorus	8.2	g/kg DM	Feedipedia

Fish, unspecified	Fish meal	High protein	Inorganics	Phosphorus	22.3	g/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Inorganics	Phosphorus	27.9	g/kg DM	Feedipedia
Fish, unspecified	Fish protein concentrate		Inorganics	Phosphorus	18.4	g/kg DM	Feedipedia
Fish, unspecified	Fish solubles	Menhaden, fresh	Inorganics	Phosphorus	11	g/kg DM	Feedipedia
Frog	Frog meal	Frog waste	Inorganics	Phosphorus	19	g/kg DM	Feedipedia
Frog	Frog meal	Whole frog	Inorganics	Phosphorus	2.8	g/kg DM	Feedipedia
Poultry	Hatchery by product		Inorganics	Phosphorus	3.1	g/kg DM	Feedipedia
Beef	Cattle hoof and horn meal		Inorganics	Phosphorus	7.3	g/kg DM	Feedipedia
Lamb	Lamb hooves	Raw	Inorganics	Phosphorus	87.5	g/kg DM	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Inorganics	Phosphorus	0.2	g/kg DM	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Inorganics	Phosphorus	0.7	g/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Inorganics	Phosphorus	5.9	g/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	Cattle	Inorganics	Phosphorus	11	g/kg DM	Feedipedia

Poultry	Poultry manure, dried	Dehydrated, poultry	Inorganics	Phosphorus	19.8	g/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Inorganics	Phosphorus	48.7	g/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Inorganics	Phosphorus	45.8	g/kg DM	Feedipedia
Poultry	Offal meal	Poultry	Inorganics	Phosphorus	10.1	g/kg DM	Feedipedia
Poultry	Poultry by product meal	High protein	Inorganics	Phosphorus	6.1	g/kg DM	Feedipedia
Poultry	Poultry feet	Chicken, raw	Inorganics	Phosphorus	33.3	g/kg DM	Feedipedia
Poultry	Poultry heads	Chicken, raw	Inorganics	Phosphorus	33	g/kg DM	Feedipedia
Poultry	Poultry viscera	Chicken, raw	Inorganics	Phosphorus	9.6	g/kg DM	Feedipedia
Beef	Rumen content	Cattle, fresh	Inorganics	Phosphorus	6.2	g/kg DM	Feedipedia
Beef	Rumen content	Lambs, fresh	Inorganics	Phosphorus	5.6	g/kg DM	Feedipedia
Shrimp	Shrimp heads	Fresh	Inorganics	Phosphorus	14.8	g/kg DM	Feedipedia
Shrimp	Shrimp heads, dried	Dehydrated	Inorganics	Phosphorus	10.7	g/kg DM	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Inorganics	Phosphorus	1.9	g/kg DM	Feedipedia
Shrimp	Shrimp waste	Fresh	Inorganics	Phosphorus	21	g/kg DM	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Inorganics	Phosphorus	14.3	g/kg DM	Feedipedia
Shrimp	Shrimp waste	Ensiled, fresh	Inorganics	Phosphorus	10	g/kg DM	Feedipedia

Shrimp	Shrimps, dried	Whole, dehydrated	Inorganics	Phosphorus	7.2	g/kg DM	Feedipedia
Snail	Snail meal	With shells	Inorganics	Phosphorus	5.6	g/kg DM	Feedipedia
Snail	Snail meal	Without shells	Inorganics	Phosphorus	5	g/kg DM	Feedipedia
Squid	Squid meal		Inorganics	Phosphorus	9.6	g/kg DM	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Inorganics	Phosphorus	5	g/kg DM	Feedipedia
Toad	Toad meal		Inorganics	Phosphorus	3.8	g/kg DM	Feedipedia
Whale	Whale meal		Inorganics	Phosphorus	17.3	g/kg DM	Feedipedia
Whale	Whale solubles	Condensed	Inorganics	Phosphorus	6	g/kg DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Inorganics	Phosphorus	6.4	g/kg DM	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Inorganics	Phosphorus	10.7	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Inorganics	Phosphorus	13.1	g/kg DM	Feedipedia
Bakery	Bakery and viennoiserie by products		Inorganics	Phosphorus	6.2	g/kg DM	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Inorganics	Phosphorus	6.6	g/kg DM	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Inorganics	Phosphorus	8.8	g/kg DM	Feedipedia

Corn	Maize starch		Inorganics	Phosphorus	0.2	g/kg DM	Feedipedia
Animal by-products, unspecified	Greaves		Inorganics	Phosphorus	0.56	g/kg wet waste	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments
Animal by-products, unspecified	Rinds		Inorganics	Phosphorus	0.33	g/kg	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments
Apple	Apple pomace, dried	Dried	Inorganics	Phosphorus	0.12	% d.b.	2012FeedComp
Apple	Apple pomace	Malus domestica	Inorganics	Phosphorus	0.14	% d.b.	Waste to worth: fruit wastes and by-products as animal feed
Citrus, unspecified	Citrus pulp, dried		Inorganics	Phosphorus	0.12	% d.b.	2012FeedComp

Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Phosphorus	0.14	% d.b.	Utilization of fruit and vegetable wastes, FAO
Orange	Orange pulp, dried		Inorganics	Phosphorus	0.11	% DM	2012FeedComp
Orange	Orange pulp silage	Source: Israel	Inorganics	Phosphorus	0.1	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus molasses	Source: United States	Inorganics	Phosphorus	0.08	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus molasses		Inorganics	Phosphorus	0.15	% DM	2012FeedComp
Tomatoes	Tomato pomace, dried	Dried	Inorganics	Phosphorus	0.59	% d.b.	2012FeedComp
Tomatoes	Tomato pomace	Solanum lucopersicum	Inorganics	Phosphorus	0.41-0.47	% d.b.	Vegetable waste as animal feed paper; Utilization of fruit and vegetable wastes, FAO
Rice	Rice hull		Inorganics	Phosphorus	0.07	% d.b.	2012FeedComp
Rice	Rice mill byproduct		Inorganics	Phosphorus	0.48	% d.b.	2012FeedComp

Poultry	Feather meal	Hydrolyzed	Inorganics	Phosphorus	0.45	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Phosphorus	0.09	% d.b.	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Phosphorus	0.2	% d.b.	Utilization of fruit and vegetable wastes, FAO
Barley	Barley grain screenings		Inorganics	Phosphorus	0.33	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Inorganics	Phosphorus	0.58	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Inorganics	Phosphorus	1.49	% d.b.	2012FeedComp
Grape	Grape pomace	Stemless	Inorganics	Phosphorus	0.07	% d.b.	2012FeedComp
Grape	Grape pomace/marc	Namily vitaceae	Inorganics	Phosphorus	0.06	% d.b.	Utilization of fruit and vegetable wastes, FAO; Fruit waste as feed paper
Distillers grain	Distillers grain	Wet	Inorganics	Phosphorus	0.7	% d.b.	2012FeedComp

Distillers grain	Distillers grain	Sorghum, wet	Inorganics	Phosphorus	0.68	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Inorganics	Phosphorus	0.7	% d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Almond	Inorganics	Phosphorus	0.1	% d.b.	2012FeedComp
Apple	Apple		Inorganics	Phosphorus	0.6	% DM	2012FeedComp
Apple	Apple pomace	Wet	Inorganics	Phosphorus	0.12	% d.b.	2012FeedComp
Banana	Banana		Inorganics	Phosphorus	0.11	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Inorganics	Phosphorus	0.08	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Inorganics	Phosphorus	0.08	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Inorganics	Phosphorus	0.1	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Inorganics	Phosphorus	0.1	% d.b.	2012FeedComp
Sugar beet	Sugar beet tops		Inorganics	Phosphorus	0.22	% d.b.	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Inorganics	Phosphorus	0.22	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Inorganics	Phosphorus	0.28	% d.b.	2012FeedComp

Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Inorganics	Phosphorus	12.74	% d.b.	2012FeedComp
Bread	Bread by product		Inorganics	Phosphorus	0.18	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Inorganics	Phosphorus	0.58	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Inorganics	Phosphorus	1.56	% d.b.	2012FeedComp
Butter	Buttermilk, dried		Inorganics	Phosphorus	1	% d.b.	2012FeedComp
Bread	Calcium carbonate		Inorganics	Phosphorus	0.04	% d.b.	2012FeedComp
Carrot	Carrot	Roots, fresh	Inorganics	Phosphorus	0.32	% d.b.	2012FeedComp
Carrot	Carrot tops		Inorganics	Phosphorus	0.19	% d.b.	2012FeedComp
Beef	Cattle manure, dried	Dried	Inorganics	Phosphorus	1.2	% d.b.	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Inorganics	Phosphorus	0.3	% d.b.	2012FeedComp
Coffee	Coffee grounds		Inorganics	Phosphorus	0.08	% d.b.	2012FeedComp
Cotton	Cottonseed hulls		Inorganics	Phosphorus	0.08	% d.b.	2012FeedComp

Cotton	Cottonseed meal	Solv. Ext. 41% CP	Inorganics	Phosphorus	1.23	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Inorganics	Phosphorus	1.18	% d.b.	2012FeedComp
Crab	Crab waste meal		Inorganics	Phosphorus	1.88	% d.b.	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Inorganics	Phosphorus	0.86	% d.b.	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Inorganics	Phosphorus	0.78	% d.b.	2012FeedComp
Crawfish	Crawfish waste meal		Inorganics	Phosphorus	0.85	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Barley	Inorganics	Phosphorus	0.67	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Inorganics	Phosphorus	0.75	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Inorganics	Phosphorus	0.75	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Inorganics	Phosphorus	0.84	% d.b.	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Inorganics	Phosphorus	1.2	% d.b.	2012FeedComp
Distillers grain	Distillers corn stillage		Inorganics	Phosphorus	0.72	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Inorganics	Phosphorus	0.68	% d.b.	2012FeedComp

Fish, unspecified	Fish meal		Inorganics	Phosphorus	3.15	% d.b.	2012FeedComp
Hop	Hop leaves		Inorganics	Phosphorus	0.64	% d.b.	2012FeedComp
Hop	Hop vine silage		Inorganics	Phosphorus	0.37	% d.b.	2012FeedComp
Hop	Hops	Spent	Inorganics	Phosphorus	0.6	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Inorganics	Phosphorus	0.91	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Inorganics	Phosphorus	0.9	% d.b.	2012FeedComp
Poultry	Meat meal	Swine/poultry	Inorganics	Phosphorus	4.42	% d.b.	2012FeedComp
Sugar beet	Sugar beet molasses		Inorganics	Phosphorus	0.03	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses		Inorganics	Phosphorus	0.09	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Inorganics	Phosphorus	0.15	% d.b.	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Inorganics	Phosphorus	0.14	% d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Inorganics	Phosphorus	0.07	% d.b.	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Inorganics	Phosphorus	0.62	% d.b.	2012FeedComp

Nuts, unspecified	Nut skins	Peanut	Inorganics	Phosphorus	0.2	% d.b.	2012FeedComp
Pineapple	Pineapple greenchop		Inorganics	Phosphorus	0.08	% d.b.	2012FeedComp
Pineapple	Pineapple bran		Inorganics	Phosphorus	0.12	% d.b.	2012FeedComp
Pineapple	Pineapple presscake		Inorganics	Phosphorus	0.09	% d.b.	2012FeedComp
Potato	Potato vine silage		Inorganics	Phosphorus	0.29	% d.b.	2012FeedComp
Potato	Potato	Cull	Inorganics	Phosphorus	0.24	% d.b.	2012FeedComp
Potato	Potato waste	Wet	Inorganics	Phosphorus	0.25	% d.b.	2012FeedComp
Potato	Potato waste, dried	Dried	Inorganics	Phosphorus	0.25	% d.b.	2012FeedComp
Potato	Potato waste	Wet with lime	Inorganics	Phosphorus	0.18	% d.b.	2012FeedComp
Potato	Potato waste	Filter cake	Inorganics	Phosphorus	0.19	% d.b.	2012FeedComp
Poultry	Poultry by product meal		Inorganics	Phosphorus	2.25	% d.b.	2012FeedComp
Poultry	Poultry manure, dried	Dried	Inorganics	Phosphorus	2.8	% d.b.	2012FeedComp
Rice	Rice straw		Inorganics	Phosphorus	0.08	% d.b.	2012FeedComp
Rice	Rice straw	Ammoniated	Inorganics	Phosphorus	0.08	% d.b.	2012FeedComp

Rice	Rice grain		Inorganics	Phosphorus	0.32	% d.b.	2012FeedComp
Rice	Rice polishings		Inorganics	Phosphorus	1.34	% d.b.	2012FeedComp
Rice	Rice bran		Inorganics	Phosphorus	1.7	% d.b.	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Inorganics	Phosphorus	0.79	% d.b.	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Inorganics	Phosphorus	1.5	% d.b.	2012FeedComp
Shrimp	Shrimp waste meal		Inorganics	Phosphorus	1.75	% d.b.	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Inorganics	Phosphorus	0.97	% d.b.	2012FeedComp
Sunflower	Sunflower meal	With hulls	Inorganics	Phosphorus	1.03	% d.b.	2012FeedComp
Sunflower	Sunflower seed hulls		Inorganics	Phosphorus	0.11	% d.b.	2012FeedComp
Sugar cane	Sugar cane bagasse		Inorganics	Phosphorus	0.29	% d.b.	2012FeedComp
Tomatoes	Tomato		Inorganics	Phosphorus	0.35	% d.b.	2012FeedComp
Wheat	Wheat	Fresh, pasture	Inorganics	Phosphorus	0.36	% d.b.	2012FeedComp
Wheat	Wheat hay		Inorganics	Phosphorus	0.22	% d.b.	2012FeedComp
Wheat	Wheat silage		Inorganics	Phosphorus	0.28	% d.b.	2012FeedComp

Wheat	Wheat straw		Inorganics	Phosphorus	0.06	% d.b.	2012FeedComp
Wheat	Wheat straw	Ammoniated	Inorganics	Phosphorus	0.05	% d.b.	2012FeedComp
Wheat	Wheat grain		Inorganics	Phosphorus	0.43	% d.b.	2012FeedComp
Wheat	Wheat grain	Hard	Inorganics	Phosphorus	0.43	% d.b.	2012FeedComp
Wheat	Wheat grain	Soft	Inorganics	Phosphorus	0.4	% d.b.	2012FeedComp
Wheat	Wheat grain	Steam flaked	Inorganics	Phosphorus	0.39	% d.b.	2012FeedComp
Wheat	Wheat grain	Sprouted	Inorganics	Phosphorus	0.36	% d.b.	2012FeedComp
Wheat	Wheat bran		Inorganics	Phosphorus	1.32	% d.b.	2012FeedComp
Wheat	Wheat middlings		Inorganics	Phosphorus	1	% d.b.	2012FeedComp
Wheat	Wheat mill run		Inorganics	Phosphorus	1.1	% d.b.	2012FeedComp
Wheat	Wheat shorts		Inorganics	Phosphorus	0.93	% d.b.	2012FeedComp
Cheese	Whey, dried	Dried	Inorganics	Phosphorus	0.88	% d.b.	2012FeedComp
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Inorganics	Phosphorus	0.34	% d.b.	Utilization of fruit and vegetable wastes, FAO

Cabbage	Cabbage leaves	Brassica oleracea C.	Inorganics	Phosphorus	0.23	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Phosphorus	0.35	% d.b.	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Inorganics	Phosphorus	0.22	% d.b.	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Inorganics	Phosphorus	0.14	% d.b.	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Inorganics	Phosphorus	0.14	% d.b.	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Inorganics	Phosphorus	0.06	% d.b.	Utilization of fruit and vegetable wastes, FAO
Pineapple	Pineapple bran	Ananas comosus	Inorganics	Phosphorus	0.13	% d.b.	Utilization of fruit and vegetable wastes, FAO

Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Phosphorus	0.47	% d.b.	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Inorganics	Phosphorus	0.18	% d.b.	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Inorganics	Phosphorus	0.44	% d.b.	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Inorganics	Phosphorus	0.43	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Inorganics	Phosphorus	0.23	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Phosphorus	0.35	% d.b.	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Inorganics	Phosphorus	0.23	% d.b.	Vegetable waste as animal feed paper

Potato	Potato	Solanum tuberosum	Inorganics	Phosphorus	0.22	% d.b.	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Inorganics	Phosphorus	0.25	% d.b.	Vegetable waste as animal feed paper
Pumpkin	Pumpkin oil meal	Cucurbita pepo	Inorganics	Phosphorus	1.8	% d.b.	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Phosphorus	0.41-0.47	% d.b.	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Inorganics	Phosphorus	0.23	% d.b.	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Inorganics	Phosphorus	0.34	% d.b.	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Phosphorus	0.2	% d.b.	Vegetable waste as animal feed paper
Bakery	Bakery product, dried	Dried	Inorganics	Phosphorus	0.27	% d.b.	2012FeedComp

Canola	Canola meal	Solv. Ext.	Inorganics	Phosphorus	1.14	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole	Inorganics	Phosphorus	0.64	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Inorganics	Phosphorus	0.54	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Inorganics	Phosphorus	0.68	% d.b.	2012FeedComp
Grain, unspecified	Grain screenings		Inorganics	Phosphorus	0.34	% d.b.	2012FeedComp
Grain, unspecified	Grain dust		Inorganics	Phosphorus	0.18	% d.b.	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Inorganics	Phosphorus	6.5	% d.b.	2012FeedComp
Milk	Milk, dried	Dry, skim	Inorganics	Phosphorus	1.09	% d.b.	2012FeedComp
Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Phosphorus	2.22	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Phosphorus	5.56	% DM	Composted slaughterhouse waste as organic fertilizer

Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Phosphorus	4.26	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Phosphorus	5.26	% d.b.	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Inorganics	Phosphorus	4.06	% DM	Composted slaughterhouse waste as organic fertilizer
Apple	Apple waste		Inorganics	Phosphorus	72	% total solids	Cropgen database
Apple	Apple cake		Inorganics	Phosphorus	110	% total solids	Cropgen database
Cheese	Whey	Cheese	Inorganics	Phosphorus	483	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration

Abattoir wastes, unspecified	Abattoir raw effluent		Inorganics	Phosphorus	65.4	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Inorganics	Phosphorus	11.5	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Inorganics	Phosphorus	16.3	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Inorganics	Phosphorus	10.2	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Inorganics	Phosphorus	8.6	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Inorganics	Phosphorus	3.9	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Inorganics	Phosphorus	8.5	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Inorganics	Phosphorus	2.4	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Inorganics	Phosphorus	3.6	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Inorganics	Phosphorus	2.4	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Inorganics	Phosphorus	3.2	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Inorganics	Phosphorus	2.1	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Slaughterhouse wastewater		Inorganics	Phosphorus	80-120	mg/l	Anaerobic treatment of slaughterhouse waste and wastewater
Abattoir wastes, unspecified	Abattoir waste water		Inorganics	Phosphorus	15-40	mg/l	Waste treatment and by-products: The Science of poultry and meat processing
Abattoir wastes, unspecified	Abattoir waste water		Inorganics	Phosphorus	171	mg/l	Waste treatment and by-products: The Science of poultry and meat processing
Abattoir wastes, unspecified	Abattoir waste water		Inorganics	Phosphorus	54-92	mg/l	Waste treatment and by-products: The Science of poultry and meat processing
Grape	Grape cane	Alphone Lavallee	Inorganics	Phosphorus	0.74	mg/g	Chemical composition of grape canes

Grape	Grape cane	Atasarisi	Inorganics	Phosphorus	0.81	mg/g	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Inorganics	Phosphorus	0.8	mg/g	Chemical composition of grape canes
Grape	Grape cane	Hafizali	Inorganics	Phosphorus	0.42	mg/g	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Inorganics	Phosphorus	0.78	mg/g	Chemical composition of grape canes
Grape	Grape cane	Isabella	Inorganics	Phosphorus	0.49	mg/g	Chemical composition of grape canes
Grape	Grape cane	Italia	Inorganics	Phosphorus	0.5	mg/g	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Inorganics	Phosphorus	0.84	mg/g	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Inorganics	Phosphorus	0.93	mg/g	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Inorganics	Phosphorus	0.62	mg/g	Chemical composition of grape canes

Bolti	Bolti fish	Whole	Inorganics	Phosphorus	1046.46	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Bolti	Bolti fish	Flesh only	Inorganics	Phosphorus	1322.23	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate

Fish, unspecified	Fish protein isolate		Inorganics	Phosphorus	648.23	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Poultry	Hatchery waste		Inorganics	Phosphorus	3324	mg/kg	Composition of Australian meat chicken hatchery waste
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Inorganics	Phosphorus	4.7	mg/kg	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Inorganics	Phosphorus	2700	mg/kg	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Phosphorus	1324.3	mg/kg	ECN Phyllis 2

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Phosphorus	6600	mg/kg	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Phosphorus	1900	mg/kg	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Phosphorus	2600	mg/kg	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Phosphorus	4299	mg/kg	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Phosphorus	3647	mg/kg	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Phosphorus	3100	mg/kg	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Phosphorus	3000	mg/kg	ECN Phyllis 2
Straw	Straw		Inorganics	Phosphorus	558	mg/kg	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Phosphorus	2146.8	mg/kg	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Phosphorus	2741.5	mg/kg	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Phosphorus	3200	mg/kg	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Phosphorus	6900	mg/kg	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Phosphorus	100	mg/kg	ECN Phyllis 2
Olive	Olive cake		Inorganics	Phosphorus	1400	mg/kg	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Phosphorus	526	mg/kg	ECN Phyllis 2
Olive	Olive residue		Inorganics	Phosphorus	1297.6	mg/kg	ECN Phyllis 2
Olive	Olive residue	Sample lot size: 60kg. Country: Spain	Inorganics	Phosphorus	1523	mg/kg	ECN Phyllis 2

Olive	Olive residue		Inorganics	Phosphorus	1623	mg/kg	ECN Phyllis 2
Apple	Apple pomace		Inorganics	Phosphorus	12384	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Phosphorus	1154	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Phosphorus	7877	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Phosphorus	8749	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Phosphorus	1176	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Phosphorus	93678	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Phosphorus	73705	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Phosphorus	25691.12	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Phosphorus	71253	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Phosphorus	75786	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Phosphorus	4669	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Phosphorus	3215	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Phosphorus	82456.73	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Phosphorus	8211	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Phosphorus	1847	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Phosphorus	3003.58	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Phosphorus	290	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Phosphorus	2439	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Phosphorus	2622	ppm d.b.	NOSHAN

Rape	Rapeseed press cake		Inorganics	Phosphorus	15014	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Phosphorus	22929	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Phosphorus	940	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Phosphorus	5760	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Phosphorus	830	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Phosphorus	1210	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Phosphorus	8723	ppm d.b.	NOSHAN
Milk	Milk	Holstein Friesian cows, Spain	Inorganics	Phosphorus	87.04	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Inorganics	Phosphorus	118.97	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Food, unspecified	Food leftovers	Source separated food waste	Inorganics	Phosphorus	1.3	g/kg	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment
Beef	Cattle manure	Slurry	Inorganics	Phosphorus	0.8	g/kg	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment
Beef	Cattle manure	Dairy cows excreta	Inorganics	Phosphorus	0.96	g/kg	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment

Beef	Cattle manure	Cattle exreta - not dairy cows	Inorganics	Phosphorus	0.9	g/kg	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Phosphorus	1.28	g/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations
Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Inorganics	Phosphorus	3339.56	mg/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK

Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Inorganics	Phosphorus	0.62	g/kg DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Inorganics	Phosphorus	1.13	g/kg DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rape	Rape straw	490 fully ripe rape straw samples collected in China	Inorganics	Phosphorus	0.77	g/kg DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Inorganics	Phosphorus	1.23	g/kg DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Potato	Potato peel	A review of different publications	Inorganics	Phosphorus	0.23-2.50	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Rice	Rice husk		Inorganics	Phosphorus pentoxide (P2O5)	3.7	% ash	Combustion behaviour of rice husk in a bubbling fluidised bed
Sugar cane	Sugar cane trash	Tops and leaves	Inorganics	Phosphorus pentoxide (P2O5)	2.27	% ash	ECN Phyllis 2
Sugar beet	Sugar beet		Inorganics	Phosphorus pentoxide (P2O5)	5.2	% ash	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Phosphorus pentoxide (P2O5)	2.53	% ash	ECN Phyllis 2

Bean	Bean plant		Inorganics	Phosphorus pentoxide (P2O5)	6.68	% ash	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Phosphorus pentoxide (P2O5)	3.8	% ash	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Phosphorus pentoxide (P2O5)	8.18	% ash	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Phosphorus pentoxide (P2O5)	5.65	% ash	ECN Phyllis 2
Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Phosphorus pentoxide (P2O5)	5.55	% ash	ECN Phyllis 2

Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Phosphorus pentoxide (P2O5)	4.15	% ash	ECN Phyllis 2
Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Phosphorus pentoxide (P2O5)	2.5	% ash	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Phosphorus pentoxide (P2O5)	9.19	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Phosphorus pentoxide (P2O5)	4.85	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Phosphorus pentoxide (P2O5)	9.82	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Phosphorus pentoxide (P2O5)	4.5	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Phosphorus pentoxide (P2O5)	2.4	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Phosphorus pentoxide (P2O5)	5	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Phosphorus pentoxide (P2O5)	5.1	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Phosphorus pentoxide (P2O5)	7.93	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash fusion temperatures according to ASTM D-1857	Inorganics	Phosphorus pentoxide (P2O5)	7.79	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Phosphorus pentoxide (P2O5)	5.5	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Phosphorus pentoxide (P2O5)	4.46	% ash	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Phosphorus pentoxide (P2O5)	5.5	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Phosphorus pentoxide (P2O5)	10.14	% ash	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Phosphorus pentoxide (P2O5)	10.3	% ash	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Phosphorus pentoxide (P2O5)	1.6	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Phosphorus pentoxide (P2O5)	3.2	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Phosphorus pentoxide (P2O5)	5.14	% ash	ECN Phyllis 2
Olive	Olive		Inorganics	Phosphorus pentoxide (P2O5)	2.7	% ash	ECN Phyllis 2

Olive	Olive		Inorganics	Phosphorus pentoxide (P2O5)	3.54	% ash	ECN Phyllis 2
Olive	Olive	Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Phosphorus pentoxide (P2O5)	7.56	% ash	ECN Phyllis 2
Olive	Olive cake		Inorganics	Phosphorus pentoxide (P2O5)	2.9	% ash	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Phosphorus pentoxide (P2O5)	2.5	% ash	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Phosphorus pentoxide (P2O5)	2.46	% ash	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Phosphorus pentoxide (P2O5)	3.7	% ash	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Phosphorus pentoxide (P2O5)	1.45	% ash	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Phosphorus pentoxide (P2O5)	4	% ash	ECN Phyllis 2
Olive	Orujillo	Wood matter from pressed oil stone	Inorganics	Phosphorus pentoxide (P2O5)	4.7	% ash	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Phosphorus pentoxide (P2O5)	3.7	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Phosphorus pentoxide (P2O5)	12.34	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Phosphorus pentoxide (P2O5)	11.8	% ash	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Phosphorus pentoxide (P2O5)	16.8	% ash	ECN Phyllis 2
Coffee	Coffee husk	Parchment	Inorganics	Phosphorus pentoxide (P2O5)	3.4	% ash	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Phosphorus pentoxide (P2O5)	2	% ash	ECN Phyllis 2
Rice	Rice husk, dried	Powder	Inorganics	Phosphorus pentoxide (P2O5)	0.13	% mass fraction	Development of photoluminescent glass derived from rice husk
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Phosphorus pentoxide (P2O5)	0.17	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Phosphorus pentoxide (P2O5)	1.6	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Phosphorus pentoxide (P2O5)	0.49	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Phosphorus pentoxide (P2O5)	1.4	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Phosphorus pentoxide (P2O5)	1.1	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Phosphorus pentoxide (P2O5)	0.02	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Phosphorus pentoxide (P2O5)	1.1	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Phosphorus pentoxide (P2O5)	0.2	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Phosphorus pentoxide (P2O5)	0.65	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Phosphorus pentoxide (P2O5)	0.65	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Phosphorus pentoxide (P2O5)	1	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Phosphorus pentoxide (P2O5)	0.76	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Phosphorus pentoxide (P2O5)	0.81	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Canola	Canola meal	Average of analysed values	Proximates	Phytate	7.4	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Canola	Canola meal	Average of analysed values	Proximates	Phytate Phosphorus	7.4	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Phytosterols	Phytosterols, total	21.7	mg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Wine by-products, unspecified	Lees	Yeast	Mixed compound classes	Pigments	0.012	%	Utilization of fruit and vegetable wastes, FAO

Lemon	Lemon peel	Selinunte	Terpenes	Pinene, alpha	15.18	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Akragas	Terpenes	Pinene, alpha	16.66	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femminello S	Terpenes	Pinene, alpha	17.61	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femm. Continella m 84	Terpenes	Pinene, alpha	19.95	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Siracusano 2KR	Terpenes	Pinene, alpha	21.53	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm, Cerza	Terpenes	Pinene, alpha	21.87	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Iniasel 95	Terpenes	Pinene, alpha	22.10	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Fetnm. Fior d'Arancio m 79	Terpenes	Pinene, alpha	22.99	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Scandurca	Terpenes	Pinene, alpha	24.13	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Sfusato Amalfitano	Terpenes	Pinene, alpha	24.42	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Kamahna	Terpenes	Pinene, alpha	25.80	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Segesta	Terpenes	Pinene, alpha	27.70	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femm. Siracusano m 296	Terpenes	Pinene, alpha	29.04	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	CNR L58	Terpenes	Pinene, alpha	30.75	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Ovale di Sorrento	Terpenes	Pinene, alpha	30.88	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Ericc	Terpenes	Pinene, alpha	32.83	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Dosaco	Terpenes	Pinene, alpha	32.96	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femminello Adamo	Terpenes	Pinene, alpha	34.48	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Selinunte	Terpenes	Pinene, beta	175.88	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Akragas	Terpenes	Pinene, beta	128.00	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femminello S	Terpenes	Pinene, beta	209.08	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femm. Continella m 84	Terpenes	Pinene, beta	171.84	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Siracusano 2KR	Terpenes	Pinene, beta	226.53	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm, Cerza	Terpenes	Pinene, beta	243.61	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Iniasel 95	Terpenes	Pinene, beta	266.97	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Fetnm. Fior d'Arancio m 79	Terpenes	Pinene, beta	223.41	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Scandurca	Terpenes	Pinene, beta	260.58	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Sfusato Amalfitano	Terpenes	Pinene, beta	254.47	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Kamahna	Terpenes	Pinene, beta	214.88	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Segesta	Terpenes	Pinene, beta	310.70	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femm. Siracusano m 296	Terpenes	Pinene, beta	224.58	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Siracusano m 296	Terpenes	Pinene, beta	231.11	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Ovale di Sorrento	Terpenes	Pinene, beta	290.12	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Ericc	Terpenes	Pinene, beta	386.76	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Dosaco	Terpenes	Pinene, beta	291.20	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femminello Adamo	Terpenes	Pinene, beta	426.80	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Orange	Orange peel	Orange	Undesirable components	Piperonylbutoxid (PBO)	0.38	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Piperonylbutoxid (PBO)	0.24	mg/kg	NOSHAN

Grape	Grape pomace		Undesirable components	Piperonylbutoxid (PBO)	0.05	mg/kg	NOSHAN
Apple	Apple pomace		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN

Potato	Potato skin		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Platinum	<0.1	ppm d.b.	NOSHAN
Sunflower	Sunflower oil cake		Simple phenols	Polyphenols	0.7	% dry basis	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake
Hop	Hops	Super Styrian Aurora	Simple phenols	Polyphenols	3.9	%	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones

Hop	Hops	Hallertauer Magnum	Simple phenols	Polyphenols	2-3	%	A comparison of antioxidant and antimicrobial activity between hop leaves and hop cones
Banana	Banana leaves		Simple phenols	Polyphenols	8	%	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Red grapes	Simple phenols	Polyphenols	0.9	%	Utilization of fruit and vegetable wastes, FAO
Olive	Olive cake, dried	Dried, two-stage dried	Simple phenols	Polyphenols, total	10.5	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Olive	Olive leaves		Simple phenols	Polyphenols, total	25.3	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Grape	Grape pomace		Simple phenols	Polyphenols, total	55.3	mg/100g	NOSHAN
Orange	Orange peel	Orange	Simple phenols	Polyphenols, total	59.1	mg/100g	NOSHAN
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Simple phenols	Polyphenols, total	9.9	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Simple phenols	Polyphenols, total	4.57	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Sugar by-products, unspecified	Bagasse		Proximates	Polysaccharides	75	% DM	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Potato	Potato fibres	Pressed	Proximates	Polysaccharides, cell wall	50	%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Hot buffer soluble solids		Proximates	Polysaccharides, cell wall	68	%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Buffer insoluble solids		Proximates	Polysaccharides, cell wall	69	%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Proximates	Polysaccharides, cell wall	64	%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Polysaccharides, cell wall	50	%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Polysaccharides, cell wall	70	%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Polysaccharides, cell wall	32	%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Polyunsaturated fatty acids	Tr	g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Polyunsaturated fatty acids	47	g/100g fat	NOSHAN
Barley	Malted barley germs		Proximates	Polyunsaturated fatty acids	25.7	g/100g fat	NOSHAN
Barley	Malted barley germs		Proximates	Polyunsaturated fatty acids	55	g/100g fat	NOSHAN
Olive	Olive pomace		Proximates	Polyunsaturated fatty acids	10.91	g/100g fat	NOSHAN

Rape	Rapeseed press cake		Proximates	Polyunsaturated fatty acids	27.2	g/100g fat	NOSHAN
Babassu	Babassu cake		Waste compounds	Porosity	0.425	m^3/m^2	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Canola	Canola cake		Waste compounds	Porosity	0.638	m^3/m^2	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Castor	Castor seed cake		Waste compounds	Porosity	0.605	m^3/m^2	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Sunflower	Sunflower cake		Waste compounds	Porosity	0.512	m^3/m^2	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Grape	Grape seeds	White, Italian	Inorganics	Potassium	8	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Red, Italian	Inorganics	Potassium	7	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Californian	Inorganics	Potassium	15.4	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Not ensiled	Inorganics	Potassium	9.8	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Ensiled for 45 days	Inorganics	Potassium	10.5	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	White, Italian	Inorganics	Potassium	23.1	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Red, Italian	Inorganics	Potassium	28	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Californian	Inorganics	Potassium	45.2	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Not ensiled	Inorganics	Potassium	31.5	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Ensiled for 45 days	Inorganics	Potassium	32.7	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Citrus, unspecified	Citrus pulp silage		Inorganics	Potassium	6.2	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus meal, dried		Inorganics	Potassium	6.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Potassium	11.0	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Potassium	7.9	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Potassium	1.4	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Potassium	6.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Potassium	8.2	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp, dried		Inorganics	Potassium	7.0	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Inorganics	Potassium	8.7	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Potassium	7.7	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Potassium	1.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus seed meal	Mechanical extract	Inorganics	Potassium	14.9	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Potassium	6.2	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp	Wet	Inorganics	Potassium	10.5	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillery by-products, unspecified	Distillers solids		Inorganics	Potassium	12.5	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Rice	Rice, aerial part	Fresh	Inorganics	Potassium	16	g/kg DM	Feedipedia
Rice	Rice straw		Inorganics	Potassium	18	g/kg DM	Feedipedia
Rice	Rice straw	Urea-treated	Inorganics	Potassium	17.5	g/kg DM	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Inorganics	Potassium	20.4	g/kg DM	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Inorganics	Potassium	27.9	g/kg DM	Feedipedia
Wheat	Triticale grain		Inorganics	Potassium	5.8	g/kg DM	Feedipedia
Wheat	Wheat straw		Inorganics	Potassium	11.2	g/kg DM	Feedipedia
Palm	Oil palm fronds	Fresh	Inorganics	Potassium	7	g/kg DM	Feedipedia
Palm	Oil palm leaflets	Fresh	Inorganics	Potassium	8.8	g/kg DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Inorganics	Potassium	0.3	g/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Inorganics	Potassium	10.5	g/kg DM	Feedipedia

Distillers grain	Distillers grain	Barley (ethanol)	Inorganics	Potassium	7.6	g/kg DM	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Inorganics	Potassium	22.3	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Inorganics	Potassium	2.9	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Inorganics	Potassium	1.6	g/kg DM	Feedipedia
Rice	Rice grain	Brown	Inorganics	Potassium	3	g/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Inorganics	Potassium	17.5	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Inorganics	Potassium	10.3	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Inorganics	Potassium	3.9	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Inorganics	Potassium	15	g/kg DM	Feedipedia
Rice	Rice bran	Fibre <4%	Inorganics	Potassium	10.8	g/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Inorganics	Potassium	14.9	g/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Inorganics	Potassium	12.3	g/kg DM	Feedipedia
Rice	Rice bran	Fibre >20%	Inorganics	Potassium	6.3	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Inorganics	Potassium	8.5	g/kg DM	Feedipedia

Rice	Rice bran	Defatted, fibre 11-20%	Inorganics	Potassium	7.4	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Inorganics	Potassium	7.3	g/kg DM	Feedipedia
Rice	Rice hull		Inorganics	Potassium	4	g/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Inorganics	Potassium	2.8	g/kg DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Inorganics	Potassium	5.6	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Inorganics	Potassium	9.8	g/kg DM	Feedipedia
Distillers grain	Distillers grain	Fresh, Sorghum, with or without solubles	Inorganics	Potassium	10.9	g/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Inorganics	Potassium	3.5	g/kg DM	Feedipedia
Sorghum	Sorghum gluten feed		Inorganics	Potassium	0.6	g/kg DM	Feedipedia
Sorghum	Sorghum gluten meal		Inorganics	Potassium	0.2	g/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Inorganics	Potassium	4.3	g/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Inorganics	Potassium	3.6	g/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Inorganics	Potassium	4.6	g/kg DM	Feedipedia

Sorghum	Sorghum grain	White varieties	Inorganics	Potassium	4.4	g/kg DM	Feedipedia
Wheat	Wheat bran		Inorganics	Potassium	13.7	g/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Inorganics	Potassium	10.9	g/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Inorganics	Potassium	11.1	g/kg DM	Feedipedia
Wheat	Wheat germs		Inorganics	Potassium	11.8	g/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Inorganics	Potassium	26.2	g/kg DM	Feedipedia
Wheat	Wheat grain		Inorganics	Potassium	4.6	g/kg DM	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Inorganics	Potassium	11.9	g/kg DM	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Inorganics	Potassium	23.3	g/kg DM	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Inorganics	Potassium	10.4	g/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Inorganics	Potassium	3.5	g/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Inorganics	Potassium	2	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Inorganics	Potassium	26.8	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Inorganics	Potassium	20.6	g/kg DM	Feedipedia

Cacao/cocoa	Cocoa pod husks		Inorganics	Potassium	50.1	g/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Inorganics	Potassium	20.1	g/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Inorganics	Potassium	22.8	g/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Inorganics	Potassium	16.4	g/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Inorganics	Potassium	16.6	g/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Inorganics	Potassium	17	g/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Inorganics	Potassium	17.8	g/kg DM	Feedipedia
Flax/linseed	Flax shives		Inorganics	Potassium	4.9	g/kg DM	Feedipedia
Grape	Grape seeds		Inorganics	Potassium	5.5	g/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Inorganics	Potassium	6.5	g/kg DM	Feedipedia
Flax/linseed	Linseed meal		Inorganics	Potassium	11.8	g/kg DM	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Inorganics	Potassium	11.6	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Inorganics	Potassium	2.3	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Inorganics	Potassium	4.1	g/kg DM	Feedipedia

Corn	Maize germ	Oil <30%	Inorganics	Potassium	14.3	g/kg DM	Feedipedia
Corn	Maize germ	Oil >30%	Inorganics	Potassium	1.2	g/kg DM	Feedipedia
Palm	Oil palm kernels		Inorganics	Potassium	3.8	g/kg DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Inorganics	Potassium	5.1	g/kg DM	Feedipedia
Olive	Olive oil cake	Crude, without stones	Inorganics	Potassium	10.5	g/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Inorganics	Potassium	9.1	g/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Inorganics	Potassium	14.4	g/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Inorganics	Potassium	6.5	g/kg DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Inorganics	Potassium	7.4	g/kg DM	Feedipedia
Palm	Palm oil mill effluent	Decanted	Inorganics	Potassium	15.5	g/kg DM	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Inorganics	Potassium	9	g/kg DM	Feedipedia
Palm	Palm press fibre	High oil	Inorganics	Potassium	4.9	g/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Inorganics	Potassium	11.1	g/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Inorganics	Potassium	18.9	g/kg DM	Feedipedia

Nuts, unspecified	Nut hulls	Peanut	Inorganics	Potassium	6.9	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Inorganics	Potassium	13.9	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Inorganics	Potassium	15.3	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Inorganics	Potassium	13.5	g/kg DM	Feedipedia
Peanuts	Peanuts	Without shells	Inorganics	Potassium	7.1	g/kg DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Inorganics	Potassium	6.3	g/kg DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Inorganics	Potassium	11.7	g/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Inorganics	Potassium	13.7	g/kg DM	Feedipedia
Rape	Rapeseed hulls		Inorganics	Potassium	8.8	g/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Inorganics	Potassium	13.7	g/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Inorganics	Potassium	12.5	g/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Inorganics	Potassium	13.7	g/kg DM	Feedipedia

Rape	Rapeseed	Low erucic, low glucosinolates	Inorganics	Potassium	8.3	g/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Inorganics	Potassium	10.4	g/kg DM	Feedipedia
Sesame	Sesame meal	Solvent extraction	Inorganics	Potassium	3.8	g/kg DM	Feedipedia
Sesame	Sesame seeds	Whole	Inorganics	Potassium	5.3	g/kg DM	Feedipedia
Soy	Soybean hulls		Inorganics	Potassium	13.8	g/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Inorganics	Potassium	23.7	g/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Inorganics	Potassium	25	g/kg DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Inorganics	Potassium	21	g/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Inorganics	Potassium	18	g/kg DM	Feedipedia
Soy	Soybeans	Toasted	Inorganics	Potassium	19.2	g/kg DM	Feedipedia
Soy	Soybeans	Extruded	Inorganics	Potassium	18.7	g/kg DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Inorganics	Potassium	37.4	g/kg DM	Feedipedia
Sunflower	Sunflower forage	Silage	Inorganics	Potassium	31.5	g/kg DM	Feedipedia

Sunflower	Sunflower stalks		Inorganics	Potassium	38.4	g/kg DM	Feedipedia
Sunflower	Sunflower hulls		Inorganics	Potassium	11.9	g/kg DM	Feedipedia
Sunflower	Sunflower screenings		Inorganics	Potassium	11.6	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Inorganics	Potassium	16.9	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Inorganics	Potassium	17.7	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Inorganics	Potassium	16	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Inorganics	Potassium	11.2	g/kg DM	Feedipedia
Sunflower	Sunflower seeds		Inorganics	Potassium	9.1	g/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Inorganics	Potassium	1.9	g/kg DM	Feedipedia
Apple	Apple pomace	Fresh	Inorganics	Potassium	6.8	g/kg DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Inorganics	Potassium	20	g/kg DM	Feedipedia
Banana	Banana fruits	Immature, fresh	Inorganics	Potassium	24.2	g/kg DM	Feedipedia

Plantain	Plantain banana fruits, dried	Dehydrated	Inorganics	Potassium	20.2	g/kg DM	Feedipedia
Plantain	Plantain banana trunk	Fresh	Inorganics	Potassium	40.8	g/kg DM	Feedipedia
Banana	Banana stalks	Fresh	Inorganics	Potassium	53.5	g/kg DM	Feedipedia
Plantain	Plantain banana leaves	Fresh	Inorganics	Potassium	25.1	g/kg DM	Feedipedia
Banana	Banana peel	Mature, fresh	Inorganics	Potassium	42	g/kg DM	Feedipedia
Banana	Banana peel	Immature, fresh	Inorganics	Potassium	36	g/kg DM	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Inorganics	Potassium	44.9	g/kg DM	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Inorganics	Potassium	43.7	g/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Inorganics	Potassium	9.3	g/kg DM	Feedipedia
Coffee	Coffee hulls		Inorganics	Potassium	22.6	g/kg DM	Feedipedia
Coffee	Instant coffee by product		Inorganics	Potassium	0.5	g/kg DM	Feedipedia
Coffee	Coffee leaves		Inorganics	Potassium	29.8	g/kg DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Inorganics	Potassium	17.4	g/kg DM	Feedipedia
Grape	Grape pomace	Dehydrated	Inorganics	Potassium	12	g/kg DM	Feedipedia

Grape	Grape pomace	Silage	Inorganics	Potassium	19.4	g/kg DM	Feedipedia
Melon	Melon	Aerial part, fresh. Cucumis melo	Inorganics	Potassium	56.8	g/kg DM	Feedipedia
Melon	Melon	Fruit, fresh. Cucumis melo	Inorganics	Potassium	49.6	g/kg DM	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Inorganics	Potassium	21.3	g/kg DM	Feedipedia
Melon	Watermelon	Aerial part, fresh. Citrullus lanatus	Inorganics	Potassium	43	g/kg DM	Feedipedia
Melon	Watermelon	Fruit, fresh. Citrullus lanatus	Inorganics	Potassium	34.2	g/kg DM	Feedipedia
Sugar beet	Sugar beet molasses		Inorganics	Potassium	51.2	g/kg DM	Feedipedia
Carrot	Carrot	Roots, fresh	Inorganics	Potassium	28	g/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Inorganics	Potassium	23.1	g/kg DM	Feedipedia
Potato	Potato peel	Fresh	Inorganics	Potassium	27.9	g/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Inorganics	Potassium	23.6	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Inorganics	Potassium	4.5	g/kg DM	Feedipedia

Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Inorganics	Potassium	12.9	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Inorganics	Potassium	4.2	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Inorganics	Potassium	3.7	g/kg DM	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Inorganics	Potassium	15.2	g/kg DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Inorganics	Potassium	24.9	g/kg DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Inorganics	Potassium	14.2	g/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Inorganics	Potassium	12.2	g/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Inorganics	Potassium	9.8	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Inorganics	Potassium	1.3	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Inorganics	Potassium	2.2	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Urea-treated, dehydrated	Inorganics	Potassium	1.7	g/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Inorganics	Potassium	51	g/kg DM	Feedipedia

Sugar cane	Sugar cane tops	Fresh	Inorganics	Potassium	18.7	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Inorganics	Potassium	29	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Inorganics	Potassium	3.7	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Inorganics	Potassium	3.1	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Inorganics	Potassium	87.5	g/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal		Inorganics	Potassium	3.8	g/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Calcinated	Inorganics	Potassium	0.4	g/kg DM	Feedipedia
Crab	Crab shells	Ground	Inorganics	Potassium	4.2	g/kg DM	Feedipedia
Poultry	Feather meal		Inorganics	Potassium	1.3	g/kg DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Inorganics	Potassium	11.9	g/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Inorganics	Potassium	8.7	g/kg DM	Feedipedia
Fish, unspecified	Fish protein concentrate		Inorganics	Potassium	5	g/kg DM	Feedipedia

Frog	Frog meal	Frog waste	Inorganics	Potassium	14	g/kg DM	Feedipedia
Frog	Frog meal	Whole frog	Inorganics	Potassium	1.3	g/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Inorganics	Potassium	4.7	g/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	Cattle	Inorganics	Potassium	4.7	g/kg DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Inorganics	Potassium	16.1	g/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Inorganics	Potassium	4.6	g/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Inorganics	Potassium	5.1	g/kg DM	Feedipedia
Poultry	Offal meal	Poultry	Inorganics	Potassium	4.1	g/kg DM	Feedipedia
Shrimp	Shrimp heads	Fresh	Inorganics	Potassium	4.2	g/kg DM	Feedipedia
Shrimp	Shrimp heads, dried	Dehydrated	Inorganics	Potassium	6.4	g/kg DM	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Inorganics	Potassium	1.4	g/kg DM	Feedipedia
Snail	Snail meal	With shells	Inorganics	Potassium	1.5	g/kg DM	Feedipedia
Snail	Snail meal	Without shells	Inorganics	Potassium	22.3	g/kg DM	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Inorganics	Potassium	2.1	g/kg DM	Feedipedia
Toad	Toad meal		Inorganics	Potassium	2.4	g/kg DM	Feedipedia

Cheese	Whey, dried	Sweet, dehydrated	Inorganics	Potassium	21	g/kg DM	Feedipedia
Bakery	Bakery and viennoiserie by products		Inorganics	Potassium	2.7	g/kg DM	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Inorganics	Potassium	0.3	g/kg DM	Feedipedia
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Inorganics	Potassium	89	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Apple	Apple pomace	Wet	Inorganics	Potassium	0.2	%	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Dried	Inorganics	Potassium	0.45	%	Handbook of poultry feed from waste: processing and use

Apple	Apple pomace, dried	Powder	Inorganics	Potassium	0.95	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Potassium	1.21	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Potassium	1.13	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Potassium	1.24	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Inorganics	Potassium	0.16	%	Wet brewers' grains for beef cattle
Grape	Grape stalks		Inorganics	Potassium	0.9	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Apple	Apple pomace, dried	Dried	Inorganics	Potassium	0.5	% d.b.	2012FeedComp
Apple	Apple pomace	Malus domestica	Inorganics	Potassium	0.73	% d.b.	Waste to worth: fruit wastes and by-products as animal feed

Apple	Apple pomace, dried	Powder	Inorganics	Potassium	0.989	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Potassium	1.26	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Potassium	1.18	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Potassium	1.28	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Citrus, unspecified	Citrus pulp, dried		Inorganics	Potassium	0.8	% d.b.	2012FeedComp
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Potassium	0.66	% d.b.	Utilization of fruit and vegetable wastes, FAO
Orange	Orange pulp, dried		Inorganics	Potassium	0.6	% DM	2012FeedComp
Citrus, unspecified	Citrus molasses		Inorganics	Potassium	0.2	% DM	2012FeedComp
Tomatoes	Tomato pomace, dried	Dried	Inorganics	Potassium	3.6	% d.b.	2012FeedComp
Tomatoes	Tomato pomace	Solanum lucopersicum	Inorganics	Potassium	0.98-1.02	% d.b.	Vegetable waste as animal feed paper; Utilization of fruit and vegetable wastes, FAO

Rice	Rice hull		Inorganics	Potassium	0.5	% d.b.	2012FeedComp
Rice	Rice mill byproduct		Inorganics	Potassium	2.2	% d.b.	2012FeedComp
Poultry	Feather meal	Hydrolyzed	Inorganics	Potassium	0.1	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Potassium	0.96	% d.b.	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Potassium	0.54	% d.b.	Utilization of fruit and vegetable wastes, FAO
Barley	Barley grain screenings		Inorganics	Potassium	0.9	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Inorganics	Potassium	0.1	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Inorganics	Potassium	1.8	% d.b.	2012FeedComp
Grape	Grape pomace	Stemless	Inorganics	Potassium	0.6	% d.b.	2012FeedComp

Grape	Grape pomace/marc	Namily vitaceae	Inorganics	Potassium	0.62	% d.b.	Utilization of fruit and vegetable wastes, FAO; Fruit waste as feed paper
Distillers grain	Distillers grain	Wet	Inorganics	Potassium	1	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Inorganics	Potassium	0.3	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Inorganics	Potassium	0.5	% d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Almond	Inorganics	Potassium	2	% d.b.	2012FeedComp
Apple	Apple		Inorganics	Potassium	0.8	% DM	2012FeedComp
Apple	Apple pomace	Wet	Inorganics	Potassium	0.5	% d.b.	2012FeedComp
Banana	Banana		Inorganics	Potassium	1.5	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Inorganics	Potassium	0.9	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Inorganics	Potassium	0.9	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Inorganics	Potassium	1.8	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Inorganics	Potassium	1.8	% d.b.	2012FeedComp

Sugar beet	Sugar beet tops		Inorganics	Potassium	5.2	% d.b.	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Inorganics	Potassium	5.7	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Inorganics	Potassium	0.2	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Inorganics	Potassium	0.2	% d.b.	2012FeedComp
Bread	Bread by product		Inorganics	Potassium	0.2	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Inorganics	Potassium	0.1	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Inorganics	Potassium	1.8	% d.b.	2012FeedComp
Butter	Buttermilk, dried		Inorganics	Potassium	0.9	% d.b.	2012FeedComp
Bread	Calcium carbonate		Inorganics	Potassium	0.1	% d.b.	2012FeedComp
Carrot	Carrot	Roots, fresh	Inorganics	Potassium	2.5	% d.b.	2012FeedComp
Carrot	Carrot tops		Inorganics	Potassium	1.9	% d.b.	2012FeedComp
Beef	Cattle manure, dried	Dried	Inorganics	Potassium	0.6	% d.b.	2012FeedComp

Coconut	Coconut meal	Mech. Ext.	Inorganics	Potassium	1	% d.b.	2012FeedComp
Cotton	Cottonseed hulls		Inorganics	Potassium	1	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Inorganics	Potassium	1.6	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Inorganics	Potassium	1.6	% d.b.	2012FeedComp
Crab	Crab waste meal		Inorganics	Potassium	0.5	% d.b.	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Inorganics	Potassium	1.1	% d.b.	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Inorganics	Potassium	1	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Barley	Inorganics	Potassium	1	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Inorganics	Potassium	0.9	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Inorganics	Potassium	0.9	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Inorganics	Potassium	0.9	% d.b.	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Inorganics	Potassium	1.8	% d.b.	2012FeedComp
Distillers grain	Distillers corn stillage		Inorganics	Potassium	0.2	% d.b.	2012FeedComp

Distillers grain	Distillers grain, dried	Sorghum, dry	Inorganics	Potassium	0.3	% d.b.	2012FeedComp
Fish, unspecified	Fish meal		Inorganics	Potassium	0.7	% d.b.	2012FeedComp
Hop	Hop vine silage		Inorganics	Potassium	1.8	% d.b.	2012FeedComp
Hop	Hops	Spent	Inorganics	Potassium	0.91	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Inorganics	Potassium	1.5	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Inorganics	Potassium	1.4	% d.b.	2012FeedComp
Poultry	Meat meal	Swine/poultry	Inorganics	Potassium	0.5	% d.b.	2012FeedComp
Sugar beet	Sugar beet molasses		Inorganics	Potassium	6	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses		Inorganics	Potassium	4.2	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Inorganics	Potassium	3.6	% d.b.	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Inorganics	Potassium	7.5	% d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Inorganics	Potassium	0.9	% d.b.	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Inorganics	Potassium	1.1	% d.b.	2012FeedComp

Potato	Potato vine silage		Inorganics	Potassium	4	% d.b.	2012FeedComp
Potato	Potato	Cull	Inorganics	Potassium	2.2	% d.b.	2012FeedComp
Potato	Potato waste	Wet	Inorganics	Potassium	1.2	% d.b.	2012FeedComp
Potato	Potato waste, dried	Dried	Inorganics	Potassium	1.2	% d.b.	2012FeedComp
Potato	Potato waste	Filter cake	Inorganics	Potassium	0.2	% d.b.	2012FeedComp
Poultry	Poultry by product meal		Inorganics	Potassium	0.5	% d.b.	2012FeedComp
Poultry	Poultry manure, dried	Dried	Inorganics	Potassium	2.3	% d.b.	2012FeedComp
Rice	Rice straw		Inorganics	Potassium	1.2	% d.b.	2012FeedComp
Rice	Rice straw	Ammoniated	Inorganics	Potassium	1.1	% d.b.	2012FeedComp
Rice	Rice grain		Inorganics	Potassium	0.4	% d.b.	2012FeedComp
Rice	Rice polishings		Inorganics	Potassium	1.2	% d.b.	2012FeedComp
Rice	Rice bran		Inorganics	Potassium	1.8	% d.b.	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Inorganics	Potassium	0.9	% d.b.	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Inorganics	Potassium	1.2	% d.b.	2012FeedComp

Sunflower	Sunflower meal	Solv. Ext.	Inorganics	Potassium	1.1	% d.b.	2012FeedComp
Sunflower	Sunflower meal	With hulls	Inorganics	Potassium	1	% d.b.	2012FeedComp
Sunflower	Sunflower seed hulls		Inorganics	Potassium	0.2	% d.b.	2012FeedComp
Sugar cane	Sugar cane bagasse		Inorganics	Potassium	0.5	% d.b.	2012FeedComp
Tomatoes	Tomato		Inorganics	Potassium	4.2	% d.b.	2012FeedComp
Wheat	Wheat	Fresh, pasture	Inorganics	Potassium	3.1	% d.b.	2012FeedComp
Wheat	Wheat hay		Inorganics	Potassium	1.4	% d.b.	2012FeedComp
Wheat	Wheat silage		Inorganics	Potassium	2.1	% d.b.	2012FeedComp
Wheat	Wheat straw		Inorganics	Potassium	1.3	% d.b.	2012FeedComp
Wheat	Wheat straw	Ammoniated	Inorganics	Potassium	1.3	% d.b.	2012FeedComp
Wheat	Wheat grain		Inorganics	Potassium	0.4	% d.b.	2012FeedComp
Wheat	Wheat grain	Hard	Inorganics	Potassium	0.5	% d.b.	2012FeedComp
Wheat	Wheat grain	Soft	Inorganics	Potassium	0.4	% d.b.	2012FeedComp
Wheat	Wheat grain	Steam flaked	Inorganics	Potassium	0.4	% d.b.	2012FeedComp

Wheat	Wheat grain	Sprouted	Inorganics	Potassium	0.4	% d.b.	2012FeedComp
Wheat	Wheat bran		Inorganics	Potassium	1.4	% d.b.	2012FeedComp
Wheat	Wheat middlings		Inorganics	Potassium	1.3	% d.b.	2012FeedComp
Wheat	Wheat mill run		Inorganics	Potassium	1.2	% d.b.	2012FeedComp
Wheat	Wheat shorts		Inorganics	Potassium	1.1	% d.b.	2012FeedComp
Cheese	Whey, dried	Dried	Inorganics	Potassium	1.3	% d.b.	2012FeedComp
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Inorganics	Potassium	0.6	% d.b.	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Inorganics	Potassium	0.44	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Potassium	2.8	% d.b.	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Inorganics	Potassium	2.15	% d.b.	Utilization of fruit and vegetable wastes, FAO

Lemon	Sweet lemon pulp	Citrus limetta, without skin	Inorganics	Potassium	0.66	% d.b.	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Inorganics	Potassium	0.73	% d.b.	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Inorganics	Potassium	0.62	% d.b.	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Potassium	0.98	% d.b.	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Inorganics	Potassium	1.11	% d.b.	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Inorganics	Potassium	0.44	% d.b.	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Inorganics	Potassium	0.74	% d.b.	Utilization of fruit and vegetable wastes, FAO

Carrot	Carrot pulp	Daucus carota	Inorganics	Potassium	0.45	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Potassium	2.8	% d.b.	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Inorganics	Potassium	0.45	% d.b.	Vegetable waste as animal feed paper
Potato	Potato	Solanum tuberosum	Inorganics	Potassium	2.15	% d.b.	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Inorganics	Potassium	3.51	% d.b.	Vegetable waste as animal feed paper
Pumpkin	Pumpkin oil meal	Cucurbita pepo	Inorganics	Potassium	1.37	% d.b.	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Potassium	0.98-1.02	% d.b.	Vegetable waste as animal feed paper

Cabbage	Cabbage leaves	Brassica oleracea	Inorganics	Potassium	0.44	% d.b.	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Inorganics	Potassium	0.6	% d.b.	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Potassium	0.54	% d.b.	Vegetable waste as animal feed paper
Bakery	Bakery product, dried	Dried	Inorganics	Potassium	0.4	% d.b.	2012FeedComp
Canola	Canola meal	Solv. Ext.	Inorganics	Potassium	1.1	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole	Inorganics	Potassium	1	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Inorganics	Potassium	1.2	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Inorganics	Potassium	1.3	% d.b.	2012FeedComp
Milk	Milk, dried	Dry, skim	Inorganics	Potassium	1.7	% d.b.	2012FeedComp
Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Potassium	0.76	% DM	Composted slaughterhouse waste as organic fertilizer

Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Potassium	0.76	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Potassium	0.83	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Potassium	0.5	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Inorganics	Potassium	0.41	% DM	Composted slaughterhouse waste as organic fertilizer
Cheese	Whey	Cheese	Inorganics	Potassium	1670	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration

Grape	Grape cane	Alphone Lavallee	Inorganics	Potassium	5.68	mg/g	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Inorganics	Potassium	6.3	mg/g	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Inorganics	Potassium	5.87	mg/g	Chemical composition of grape canes
Grape	Grape cane	Hafizali	Inorganics	Potassium	5.19	mg/g	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Inorganics	Potassium	7.02	mg/g	Chemical composition of grape canes
Grape	Grape cane	Isabella	Inorganics	Potassium	5.69	mg/g	Chemical composition of grape canes
Grape	Grape cane	Italia	Inorganics	Potassium	8.23	mg/g	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Inorganics	Potassium	6	mg/g	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Inorganics	Potassium	6.29	mg/g	Chemical composition of grape canes

Grape	Grape cane	Trakya Ilkeren	Inorganics	Potassium	6.95	mg/g	Chemical composition of grape canes
Grape	Grape marc		Inorganics	Potassium	19967	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Inorganics	Potassium	24389	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape peels		Inorganics	Potassium	38041	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape seeds		Inorganics	Potassium	13777	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Inorganics	Potassium	1959	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape meal	Extraction meal	Inorganics	Potassium	4443	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato peel		Inorganics	Potassium	15335	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Inorganics	Potassium	5986	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato cake		Inorganics	Potassium	6388	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato meal		Inorganics	Potassium	8306	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Inorganics	Potassium	11291	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato residues	Wet	Inorganics	Potassium	9536	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Orange	Orange pulp, dried		Inorganics	Potassium	7	mg/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Inorganics	Potassium	8.7	mg/kg DM	Citrus by-products as ruminant feeds: A review
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Potassium	5536.7	mg/kg DM	ECN Phyllis 2

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Potassium	36000	mg/kg DM	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Potassium	11000	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Potassium	11000	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Potassium	48978	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Potassium	50000	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Potassium	44000	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Potassium	59000	mg/kg DM	ECN Phyllis 2
Rice	Rice straw char	Char from pyrolysis at 490°C	Inorganics	Potassium	22755	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Potassium	8668	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Potassium	41762.6	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Potassium	53451.8	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Potassium	27000	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Potassium	21800	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Potassium	700	mg/kg DM	ECN Phyllis 2
Olive	Olive cake		Inorganics	Potassium	9000	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Potassium	6566.5	mg/kg DM	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Potassium	34200	mg/kg DM	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Potassium	23500	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Potassium	15561.3	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Potassium	26008	mg/kg DM	ECN Phyllis 2
Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Potassium	4.2	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Potassium	6.72	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Potassium	7.81	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Potassium	2.68	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Poultry	Hatchery waste		Inorganics	Potassium	2670	mg/kg	Composition of Australian meat chicken hatchery waste
Apple	Apple pomace		Inorganics	Potassium	10516	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Potassium	9563	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Potassium	32716	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Potassium	48925	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Potassium	9933	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Potassium	17839.5	ppm d.b.	NOSHAN

Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Potassium	688	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Potassium	23094.55	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Potassium	1123	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Potassium	1493	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Potassium	1074	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Potassium	28883	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Potassium	19843.99	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Potassium	3000	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Potassium	28805	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Potassium	16119.79	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Potassium	8057	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Potassium	21951	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Potassium	28714	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Potassium	17012	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Potassium	20037	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Potassium	3384	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Potassium	27736	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Potassium	9264	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Potassium	13018	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Potassium	16927	ppm d.b.	NOSHAN

Food, unspecified	Food leftovers	Source separated food waste	Inorganics	Potassium	3.4	g/kg	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment
Beef	Cattle manure	Slurry	Inorganics	Potassium	1.6	g/kg	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment
Beef	Cattle manure	Dairy cows excreta	Inorganics	Potassium	3.3	g/kg	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment

Beef	Cattle manure	Cattle exreta - not dairy cows	Inorganics	Potassium	4.3	g/kg	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Potassium	3.39	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations
Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Inorganics	Potassium	9109.78	g/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK

Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Inorganics	Potassium	18.13	g/kg DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Inorganics	Potassium	18.61	g/kg DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rape	Rape straw	490 fully ripe rape straw samples collected in China	Inorganics	Potassium	15.43	g/kg DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Inorganics	Potassium	11.25	g/kg DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice husk	Before soaking pre-treatment	Inorganics	Potassium oxide (K2O)	4.39	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk, dried	Soaked rice husks, dried	Inorganics	Potassium oxide (K2O)	0.76	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Rice	Rice husk		Inorganics	Potassium oxide (K2O)	5.4	% ash	Combustion behaviour of rice husk in a bubbling fluidised bed
Grape	Char from grape residue	Residue from wine production, pyrolysis in packed bed (280-530°C deg C radial profile)	Inorganics	Potassium oxide (K2O)	5.1	% ash	ECN Phyllis 2
Olive	Char from olive husks	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Potassium oxide (K2O)	15.1	% ash	ECN Phyllis 2
Wheat	Char from wheat straw	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Potassium oxide (K2O)	14.1	% ash	ECN Phyllis 2
Sugar cane	Sugar cane trash	Tops and leaves	Inorganics	Potassium oxide (K2O)	13.39	% ash	ECN Phyllis 2
Sugar beet	Sugar beet		Inorganics	Potassium oxide (K2O)	8.4	% ash	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Potassium oxide (K2O)	19.61	% ash	ECN Phyllis 2

Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Potassium oxide (K2O)	16	% ash	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Potassium oxide (K2O)	6.37	% ash	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Potassium oxide (K2O)	7.49	% ash	ECN Phyllis 2
Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Potassium oxide (K2O)	18.21	% ash	ECN Phyllis 2

Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Potassium oxide (K2O)	19.9	% ash	ECN Phyllis 2
Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Potassium oxide (K2O)	12.97	% ash	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Potassium oxide (K2O)	13.4	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Potassium oxide (K2O)	36.71	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Potassium oxide (K2O)	23.37	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Potassium oxide (K2O)	48.7	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Potassium oxide (K2O)	31	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Potassium oxide (K2O)	49.6	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Potassium oxide (K2O)	52.9	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Potassium oxide (K2O)	48.6	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash fusion temperatures according to ASTM D-1857	Inorganics	Potassium oxide (K2O)	14.7	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Potassium oxide (K2O)	50.9	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Potassium oxide (K2O)	48.7	% ash	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Potassium oxide (K2O)	14.14	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Potassium oxide (K2O)	30.93	% ash	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Potassium oxide (K2O)	33.1	% ash	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Potassium oxide (K2O)	8.8	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Potassium oxide (K2O)	30.4	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Potassium oxide (K2O)	40.34	% ash	ECN Phyllis 2
Olive	Olive		Inorganics	Potassium oxide (K2O)	5.2	% ash	ECN Phyllis 2

Olive	Olive		Inorganics	Potassium oxide (K2O)	1.46	% ash	ECN Phyllis 2
Olive	Olive	Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Potassium oxide (K2O)	3.13	% ash	ECN Phyllis 2
Olive	Olive cake		Inorganics	Potassium oxide (K2O)	2	% ash	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Potassium oxide (K2O)	4.3	% ash	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Potassium oxide (K2O)	4.4	% ash	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Potassium oxide (K2O)	20.06	% ash	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Potassium oxide (K2O)	24.73	% ash	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Potassium oxide (K2O)	18.2	% ash	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Potassium oxide (K2O)	41.82	% ash	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Potassium oxide (K2O)	5.89	% ash	ECN Phyllis 2
Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Potassium oxide (K2O)	15.1	% ash	ECN Phyllis 2

Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Potassium oxide (K2O)	4.9	% ash	ECN Phyllis 2
Olive	Orujillo	Wood matter from pressed oil stone	Inorganics	Potassium oxide (K2O)	36.6	% ash	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Potassium oxide (K2O)	38.1	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Potassium oxide (K2O)	13.98	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Potassium oxide (K2O)	18.2	% ash	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Potassium oxide (K2O)	37.5	% ash	ECN Phyllis 2
Coffee	Coffee husk	Parchment	Inorganics	Potassium oxide (K2O)	36.9	% ash	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Inorganics	Potassium oxide (K2O)	42	% ash	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Potassium oxide (K2O)	7.4	% ash	ECN Phyllis 2

Rice	Rice husk	Ash	Inorganics	Potassium oxide (K2O)	1.952	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Silica powder	Inorganics	Potassium oxide (K2O)	0.0038	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Potassium oxide (K2O)	0.35	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Potassium oxide (K2O)	2.8	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Potassium oxide (K2O)	0.69	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Potassium oxide (K2O)	2.5	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Potassium oxide (K2O)	2.3	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Potassium oxide (K2O)	0.2	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Potassium oxide (K2O)	2.1	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Potassium oxide (K2O)	0.61	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Potassium oxide (K2O)	2.4	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Potassium oxide (K2O)	2.1	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Potassium oxide (K2O)	1.1	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Potassium oxide (K2O)	2.2	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Potassium oxide (K2O)	1.3	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Potassium oxide (K2O)	2.9	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk, dried	Powder	Inorganics	Potassium oxide (K2O)	0.14	% mass fraction	Development of photoluminescent glass derived from rice husk
Rice	Rice husk		Inorganics	Potassium oxide (K2O)	5.4	wt% in ash	Combustion behaviour of rice husk in a bubbling fluidised bed
Wheat	Wheat straw		Inorganics	Potassium oxide (K2O)	6.6	wt% in ash	Combustion behaviour of rice husk in a bubbling fluidised bed
Lemon	Sweet lemon pulp	Citrus limetta	Waste compounds	Potential DM intake	13.1	kg/day	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Waste compounds	Potential DM intake	11.2	kg/day	Utilization of fruit and vegetable wastes, FAO

Olive	Olive cake, dried	Dried, two-stage dried	Waste compounds	Potential degradability	500	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Waste compounds	Potential degradability	745	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive cake, dried	Dried, two-stage dried	Waste compounds	Potential degradability	555	g/kg CP	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Olive	Olive leaves		Waste compounds	Potential degradability	702	g/kg CP	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Apple	Apple pomace	From juice making	Waste compounds	Potential gas production	77.56	%	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace	From puree making	Waste compounds	Potential gas production	53.23	%	Kinetics of digestion and fermentation of apple pomace from juice and puree making

Olive	Olive cake, dried	Dried, two-stage dried	Waste compounds	Potentially degradable insoluble fraction	309	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Waste compounds	Potentially degradable insoluble fraction	469	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive cake, dried	Dried, two-stage dried	Waste compounds	Potentially degradable insoluble fraction	424	g/kg CP	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Olive	Olive leaves		Waste compounds	Potentially degradable insoluble fraction	624	g/kg CP	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Waste compounds	Pour point	-5	°C	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Waste compounds	Pour point	-5	°C	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Grape	Grape skins	White grape pomace skins, Muller Thurgau	Pro(antho)cyanidins	Proanthocyanidins, extractable	15	mg/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Pro(antho)cyanidins	Proanthocyanidins, extractable	7.9	mg/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Pro(antho)cyanidins	Proanthocyanidins, extractable	12.5	mg/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Pro(antho)cyanidins	Proanthocyanidins, extractable	20	mg/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Pro(antho)cyanidins	Proanthocyanidins, extractable	10	mg/g DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape pomace, dried	Air dried	Pro(antho)cyanidins	Procyanidins, total	43469	ppm dry extract	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Pro(antho)cyanidins	Procyanidins, total	37597	ppm dry extract	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Pro(antho)cyanidins	Procyanidins, total	15337	ppm dry extract	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Rape	Rapeseed	Untreated	Waste compounds	Progoitrin	6	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed press cake	Untreated	Waste compounds	Progoitrin	7.3	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed press cake	Soaked and dried	Waste compounds	Progoitrin	0.1	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Prolamin	14	% protein	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Prolamin	12	% protein	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Prolamin	9.1	% protein	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Prolamin	8.2	% protein	Utilization of fruit and vegetable wastes, FAO

Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Prolamin	14	% protein	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Prolamin	2.5	% protein	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Proximates	Prolamin	8.5	% protein	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Prolamin	4.8	% protein	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Prolamin	7.9	% protein	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace		Proximates	Proline	1.8	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Proline	19.47	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Proline	5.27	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Proline	11.21	mg/g dry matter	NOSHAN

Apple	Apple cake		Proximates	Proline	1.14	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Proline	15.54	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Proline	23.62	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Proline	42.51	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Proline	34.27	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Proline	62.03	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Proline	6.16	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Proline	5.33	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Proline	11.22	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Proline	13.57	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Proline	10.91	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Proline	2.44	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Proline	4.31	mg/g dry matter	NOSHAN

Onion	Onion	Slices, fresh	Proximates	Proline	0.81	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Proline	3.6	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Proline	2.96	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Proline	14.9	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Proline	11.96	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Proline	4.72	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Proline	1.73	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Proline	1.13	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Proline	1.77	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Proline	19.58	mg/g dry matter	NOSHAN

Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Proline	19.3	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Proline	33.3	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Rape	Rapeseed hulls	Purified	Proximates	Proline	13.8	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls
Cabbage	Cabbage meal		Proximates	Proline	10.7	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Orange	Orange pulp, dried		Proximates	Proline	3.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Proline	21.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Proline	21.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Proline	22.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Proline	21.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Proline	21.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Proline	24.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Proline	21.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Proline	21.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Proline	22.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Proline	22.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rye	Seed residue		Proximates	Proline	6.43	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Proline	3.82	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Proline	8.57	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Proline	4.41	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Proline	3.66	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Proline	4.53	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Proline	7.35	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Proline	8.5	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Proline	48	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Proline	45.9	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Proline	1.21	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Proline	1.29	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Proline	1.23	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Proline	0.98	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Proline	4.98	% protein	Chemical characterizatio n of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Proline	10.36	% protein	Chemical characterizatio n of tomato pomace

Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Proline	5.17	% protein	Chemical characterizatio n of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Proline	6.44	% protein	Chemical characterizatio n of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Proline	5.2	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Proline	9.4	% protein	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Proline	4.9	% protein	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Proline	4.7	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Proline	9.3	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Proline	9.4	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Proline	8.8	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Proline	5	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Proline	4.5	% protein	Feedipedia

Barley	Barley rootlets	Dehydrated	Proximates	Proline	5.4	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Proline	7.7	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Proline	8.3	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Proline	8.5	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Proline	8.3	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Proline	4.7	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Proline	5.3	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Proline	4.6	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Proline	5.1	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Proline	5.6	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Proline	6.1	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Proline	7.6	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Proline	8.4	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Proline	6.7	% protein	Feedipedia

Sorghum	Sorghum grain	Low tannin	Proximates	Proline	6.8	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Proline	8.5	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Proline	8.6	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Proline	6.3	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Proline	8.5	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Proline	8.3	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Proline	4	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Proline	9.6	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Proline	5.2	% protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Proline	3.4	% protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Proline	3.4	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Proline	3.6	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Proline	3.6	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Proline	4	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Proline	3.1	% protein	Feedipedia

Grape	Grape seeds		Proximates	Proline	2.5	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Proline	4.2	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Proline	3.6	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Proline	4.4	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Proline	4.7	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Proline	5.3	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Proline	3.1	% protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Proline	3	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Proline	4.6	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Proline	16.9	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Proline	4.7	% protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Proline	8.9	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Proline	5.2	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Proline	4	% protein	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Proline	4	% protein	Feedipedia

Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Proline	0.4	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Proline	6	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Proline	6.3	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Proline	5.9	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Proline	5.9	% protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Proline	3.9	% protein	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Proline	3.9	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Proline	3.5	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Proline	3.4	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Proline	4.7	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Proline	4.9	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Proline	5	% protein	Feedipedia

Soy	Soybean meal	High oil (expeller)	Proximates	Proline	4.8	% protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Proline	5	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Proline	5	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Proline	5.2	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Proline	5.1	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Proline	4.2	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Proline	4.1	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Proline	4.2	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Proline	4.6	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Proline	4.5	% protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Proline	3	% protein	Feedipedia

Coffee	Coffee pulp, dried	Dehydrated	Proximates	Proline	3.7	% protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Proline	5.6	% protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Proline	3.2	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Proline	2.9	% protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Proline	5.2	% protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Proline	4.7	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Proline	2.3	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Proline	0.9	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Proline	3.6	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Proline	2.8	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Proline	4.5	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Proline	3.3	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Proline	4.7	% protein	Feedipedia

Potato	Sweet potato, aerial part, dried	Dry	Proximates	Proline	4.3	% protein	Feedipedia
Potato	Sweet potato leaf protein concentrate		Proximates	Proline	5.3	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Proline	5.6	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Proline	4.5	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Proline	1.2	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Proline	3	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Proline	0.3	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Proline	1.5	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Proline	0.6	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Proline	4	% protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Proline	4	% protein	Feedipedia
Poultry	Feather meal		Proximates	Proline	9.4	% protein	Feedipedia

Fish, unspecified	Fish meal	High protein	Proximates	Proline	3.8	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Proline	4.2	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Proline	4.8	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Proline	7.7	% protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Proline	6.1	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Proline	13.1	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Proline	14.3	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Proline	8.1	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Proline	8.4	% protein	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Proline	8	% protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Proline	3.4	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Proline	3.9	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Proline	4	% protein	Feedipedia

Cheese	Whey, dried	Sweet, dehydrated	Proximates	Proline	5.3	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Proline	5.9	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Proline	3.4	% protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Proline	3.6	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Proline	6.5	% protein	Feedipedia
Canola	Canola meal	Average of analysed values	Proximates	Proline	27	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Hop	Hops		Proximates	Proline	5.46	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Proline	2.99	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Proline	0.71	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Proline	1.71	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Proline	0.52	mg/g DM	NOSHAN

Cheese	Cheese	Soft and hard	Proximates	Proline	1.41	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Proline	0.77	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Proline	2.26	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Proline	1.66	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Proline	4.5	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Proline	0.17	mg/g DM	NOSHAN
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Proline	3.19	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Proline	3.66	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Proline	5.74	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Proline	4.37	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Proline	5.57	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Proline	7.78	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Proline	7.75	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Proline	7.22	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Tilapia	Tilapia residue silage	Acid	Proximates	Proline	5.94	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Proline	13.7	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Proline	7.2	g/kg DM	Nutritive value of plantain and chicory for pigs
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Proline	253.38	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Milk	Milk	Granadina goats, Spain	Proximates	Proline	310.61	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Proline	6.6	g/16g N	Feedipedia
Rape	Rapeseed	Untreated	Waste compounds	Pronapoleiferin	0.2	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed press cake	Untreated	Waste compounds	Pronapoleiferin	0.2	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed press cake	Soaked and dried	Waste compounds	Pronapoleiferin	<0.1	mmol/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Tomatoes	Tomato skin		Undesirable components	Propargite	0.01	mg/kg	NOSHAN

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Organic acids	Propionic acid	1.23	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Organic acids	Propionic acid	1.17	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Organic acids	Propionic acid	0.67	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Organic acids	Propionic acid	1.8	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Sugar by-products, unspecified	Wastewater	1h settled	Organic acids	Propionic acid	610	mg/l	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters
Orange	Orange peel	Fresh	Waste compounds	Proponic acid	0.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange peel silage		Waste compounds	Proponic acid	3.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp silage		Waste compounds	Proponic acid	2.9	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Fresh	Waste compounds	Proponic acid	1.1	g/kg DM	Citrus by-products as ruminant feeds: A review

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Protein	0.1	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Grape	Grape cane	Alphone Lavallee	Proximates	Protein	27.16	g/100g	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Proximates	Protein	25.63	g/100g	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Proximates	Protein	28.13	g/100g	Chemical composition of grape canes
Grape	Grape cane	Hafizali	Proximates	Protein	18.72	g/100g	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Proximates	Protein	23.75	g/100g	Chemical composition of grape canes
Grape	Grape cane	Isabella	Proximates	Protein	23.25	g/100g	Chemical composition of grape canes
Grape	Grape cane	Italia	Proximates	Protein	15.84	g/100g	Chemical composition of grape canes

Grape	Grape cane	Sultani Cekirdeksiz	Proximates	Protein	12.09	g/100g	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Proximates	Protein	16.75	g/100g	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Proximates	Protein	21	g/100g	Chemical composition of grape canes
Wheat	Wheat bran		Proximates	Protein	12-20	g/100g	Comparison of two wheat bran extracts in the sheet extrusion process
Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Protein	15.93	g/100g	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Protein	24.61	g/100g	Chemical characterization of tomato pomace

Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Protein	12.86	g/100g	Chemical characterizatio n of tomato pomace
Poultry	Poultry heads and feet	Inedbile fattened chicken slaughtering by-products	Proximates	Protein	16.09	g/100g	Chemical characterizatio n of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Protein	13.75	g/100g	Chemical characterizatio n of tomato pomace
Grape	Grape stalks		Proximates	Protein	6.1	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Apple	Pectin	Extracted, apple	Proximates	Protein	6.3	% w/w d.b	Pectin from apple pomace: extraction, characterizatio n and utilization

Sugar by-products, unspecified	Bagasse		Proximates	Protein	<0.1	% w/w d.b	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Proximates	Protein	2.3	% w/w d.b	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Babassu	Babassu cake		Proximates	Protein	18.8	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Canola	Canola cake		Proximates	Protein	34.85	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Castor	Castor seed cake		Proximates	Protein	43.54	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Sunflower	Sunflower cake		Proximates	Protein	23.72	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Beef	Paunch		Proximates	Protein	13.8	% of total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Dissolved air flotation sludge		Proximates	Protein	33.7	% of total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Soft offal		Proximates	Protein	26.5	% of total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Mixture of paunch, dissolved air flotation sludge and soft offal at annual production ratios		Proximates	Protein	27.3	% of total solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Solid cattle slaughterhouse wastes		Proximates	Protein	130	g/kg	Anaerobic co-digestion of solid slaughterhouse wastes with agro-residues: Synergistic and antagonistic interactions determined in batch digestion assays

Rye	Seed residue		Proximates	Protein	91	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Protein	116	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Protein	215	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Fruit and vegetables, unspecified	Pectin residue		Proximates	Protein	63	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Protein	61	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Protein	94	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Wheat	Wheat		Proximates	Protein	119	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Protein	113	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pears	Pear pomace		Proximates	Protein	62	g/kg DM	Comparative study of alkaline extraction process of hemicelluloses from pear pomace

Animal by-products, unspecified	Greaves		Proximates	Protein	440	g/kg wet waste	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments
Animal by-products, unspecified	Rinds		Proximates	Protein	458	g/kg	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments
Apple	Apple		Proximates	Protein	0.123	g equiv. BSA/g volatile solids	Cropgen database
Banana	Banana		Proximates	Protein	0.102	g equiv. BSA/g volatile solids	Cropgen database
Carrot	Carrot		Proximates	Protein	0.208	g equiv. BSA/g volatile solids	Cropgen database
Orange	Orange		Proximates	Protein	0.169	g equiv. BSA/g volatile solids	Cropgen database

Potato	Potato		Proximates	Protein	0.09	g equiv. BSA/g volatile solids	Cropgen database
Chicory	Chicory root	Pulp, Chichorium intybus, Chinese cultivar 'Zhong-Hua No.1'	Proximates	Protein	6.9	%	Sequential extraction and physicochemical characterization of polysaccharides from chicory (Chichorium intybus) root pulp
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Protein	2.82	%	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Milk	Milk	Granadina goats, Spain	Proximates	Protein	3.48	%	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Proximates	Protein	15.8	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Proximates	Protein	11.5	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Potato	Potato peel	Mature potato peel - potatoes harvested after 20 weeks	Proximates	Protein	10.76	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato
Potato	Potato peel	Young potato peel - potatoes harvested after 14 weeks	Proximates	Protein	14.21	% DM	A comparative evaluation of antioxidant and antidiabetic potential of peel from young and matured potato
Grape	Grape pomace	Skin and seeds, white grape	Proximates	Protein (crude) digestibility	35.01	MJ/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants

Grape	Grape pomace	Skin and seeds, red grape	Proximates	Protein (crude) digestibility	8.61	MJ/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Distillery by-products, unspecified	Distillers solids	Wet	Proximates	Protein (crude) digestibility	90.2	%	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Grape	Grape marc	Grape marc from Gonzlez-Byass	Proximates	Protein (crude) digestibility, in vitro	0.51	N/A	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape marc	Grape marc from Movialsa	Proximates	Protein (crude) digestibility, in vitro	0.53	N/A	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape vine shoot		Proximates	Protein (crude) digestibility, in vitro	0.7	N/A	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	White	Proximates	Protein (crude) digestibility, in vitro	0.73	N/A	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	Red	Proximates	Protein (crude) digestibility, in vitro	0.59	N/A	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Sherry	Proximates	Protein (crude) digestibility, in vitro	0.84	N/A	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc and lees		Proximates	Protein (crude) digestibility, in vitro	0.71	N/A	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Distillery by-products, unspecified	Distillers solids	Barley	Waste compounds	Protein digestibility	0.857	N/A	Wet barley distillers solids as a protein source for growing pigs

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Protein nitrogen	2.16	%	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Protein nitrogen	2.06	%	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Protein nitrogen	1.4	%	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Protein nitrogen	1.94	%	Chemical characterization of tomato pomace
Barley	Malted barley germs		Proximates	Protein, 60kDa jasmonate-induced	3	%	NOSHAN
Apple	Apple pomace		Proximates	Protein, crude	6.89	g/100g	NOSHAN

Apple	Apple pomace	Wet	Proximates	Protein, crude	1.3-1.4	g/100g	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Dried	Proximates	Protein, crude	4.3-5.1	g/100g	Handbook of poultry feed from waste: processing and use
Apple	Apple pomace, dried	Powder	Proximates	Protein, crude	5.8	g/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Proximates	Protein, crude	16.8	g/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Proximates	Protein, crude	18.5	g/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Proximates	Protein, crude	15	g/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Pectin	Wet, apple pulp	Proximates	Protein, crude	1.5	g/100g	Handbook of poultry feed from waste: processing and use
Orange	Orange peel	Orange	Proximates	Protein, crude	7.39	g/100g	NOSHAN
Cheese	Whey	Milk	Proximates	Protein, crude	14.54	g/100g	NOSHAN
Palm	Palm kernel cake		Proximates	Protein, crude	14.2	g/100g	Bio-processing of agro-byproducts to animal feed

Palm	Palm press fibre		Proximates	Protein, crude	4	g/100g	Bio-processing of agro-byproducts to animal feed
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Protein, crude	29.6	g/100g	Wet brewers' grains for beef cattle
Hop	Hops		Proximates	Protein, crude	13.19	g/100g	NOSHAN
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Protein, crude	24-27.4	g/100g	N/A
Fish, unspecified	Fish meal	Herring, capelin, sand eel	Proximates	Protein, crude	71	g/100g	Alternate protein sources for salmon and trout diets
Fish, unspecified	Fish meal	Anchovy, horse mackerel	Proximates	Protein, crude	65	g/100g	Alternate protein sources for salmon and trout diets
Fish, unspecified	Fish meal	Menhaden	Proximates	Protein, crude	61	g/100g	Alternate protein sources for salmon and trout diets

Fish, unspecified	Fish processing waste		Proximates	Protein, crude	58	g/100g	Alternate protein sources for salmon and trout diets
Apple	Apple cake		Proximates	Protein, crude	2.95	g/100g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Protein, crude	32.65	g/100g	NOSHAN
Cabbage	Cabbage		Proximates	Protein, crude	7.07	g/100g	NOSHAN
Cheese	Cheese	Hard	Proximates	Protein, crude	40.02	g/100g	NOSHAN
Cheese	Cheese	Soft	Proximates	Protein, crude	16.55	g/100g	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Protein, crude	27.39	g/100g	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Protein, crude	7.49	g/100g	NOSHAN
Grape	Grape pomace		Proximates	Protein, crude	11.52	g/100g	NOSHAN
Barley	Malted barley germs		Proximates	Protein, crude	32.07	g/100g	NOSHAN
Mushrooms	Mushrooms		Proximates	Protein, crude	32.36	g/100g	NOSHAN
Olive	Olive pomace		Proximates	Protein, crude	9.61	g/100g	NOSHAN
Onion	Onion hulls		Proximates	Protein, crude	9.41	g/100g	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Protein, crude	2.96	g/100g	NOSHAN
Potato	Potato	Selected	Proximates	Protein, crude	10.11	g/100g	NOSHAN
Potato	Potato skin		Proximates	Protein, crude	18.2	g/100g	NOSHAN
Rape	Rapeseed press cake		Proximates	Protein, crude	31.87	g/100g	NOSHAN

Cabbage	Cabbage	Sour	Proximates	Protein, crude	5.96	g/100g	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Protein, crude	19.17	g/100g	NOSHAN
Tomatoes	Tomato skin		Proximates	Protein, crude	12.14	g/100g	NOSHAN
Apple	Apple	Whole	Proximates	Protein, crude	3.15	g/100g	NOSHAN
Pears	Pear	Whole	Proximates	Protein, crude	3.56	g/100g	NOSHAN
Yoghurt	Yoghurt		Proximates	Protein, crude	31.15	g/100g	NOSHAN
Banana	Banana leaves		Proximates	Protein, crude	10-17	g/100g	Utilization of fruit and vegetable wastes, FAO
Banana	Banana pseudo stems		Proximates	Protein, crude	3-5	g/100g	Utilization of fruit and vegetable wastes, FAO
Citrus, unspecified	Citrus molasses		Proximates	Protein, crude	4-5	g/100g	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Red grapes	Proximates	Protein, crude	9-12	g/100g	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot tops		Proximates	Protein, crude	11-12	g/100g	Utilization of fruit and vegetable wastes, FAO

Carrot	Carrot pomace		Proximates	Protein, crude	7-8	g/100g	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato	Cull	Proximates	Protein, crude	14-20	g/100g	Utilization of fruit and vegetable wastes, FAO
Coconut	Coconut cake		Proximates	Protein, crude	18	g/100g	Bio-processing of agro-byproducts to animal feed
Sugar by-products, unspecified	Molasses		Proximates	Protein, crude	1.6	g/100g	Bio-processing of agro-byproducts to animal feed
Pineapple	Pineapple waste		Proximates	Protein, crude	4.9	g/100g	Bio-processing of agro-byproducts to animal feed
Apple	Apple pomace		Proximates	Protein, crude	7.96	% d.b.	Apple pomace as a supplement to pasture for dairy cows in late lactation

Apple	Apple pomace, dried	Dried	Proximates	Protein, crude	5	% d.b.	2012FeedComp
Apple	Apple pomace	Malus domestica	Proximates	Protein, crude	7.7	% d.b.	Fruit waste as feed paper
Apple	Apple pomace, dried	Powder	Proximates	Protein, crude	6.03	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Proximates	Protein, crude	17.5	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Proximates	Protein, crude	19.35	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Proximates	Protein, crude	15.57	% d.b.	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Citrus, unspecified	Citrus pulp, dried		Proximates	Protein, crude	7	% DM	2012FeedComp
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Protein, crude	10.5	% d.b.	Utilization of fruit and vegetable wastes, FAO
Cranberry	Cranberry pulp meal		Proximates	Protein, crude	7	% d.b.	2012FeedComp
Orange	Orange pulp, dried		Proximates	Protein, crude	9	% DM	2012FeedComp
Grapefruit	Grapefruit pulp silage	Grapefruit. Source: Israel	Proximates	Protein, crude	7.3	% d.b.	Citrus by-products for animal feed
Orange	Orange pulp silage	Source: Israel	Proximates	Protein, crude	7.7	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus pulp, dried	Source: Trinidad	Proximates	Protein, crude	6.9	% DM	Citrus by-products for animal feed

Citrus, unspecified	Citrus pulp, dried	Source: United States	Proximates	Protein, crude	8.1	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus molasses	Source: United States	Proximates	Protein, crude	5.8	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus seed meal	Source: United States	Proximates	Protein, crude	40	% DM	Citrus by-products for animal feed
Citrus, unspecified	Citrus molasses		Proximates	Protein, crude	9	% DM	2012FeedComp
Citrus, unspecified	Citrus pulp		Proximates	Protein, crude	7.2	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Tomatoes	Tomato pomace, dried	Dried	Proximates	Protein, crude	23	% d.b.	2012FeedComp
Tomatoes	Tomato pomace	Solanum lucopersicum	Proximates	Protein, crude	19.0-22.1	% d.b.	Vegetable waste as animal feed paper
Rice	Rice hull		Proximates	Protein, crude	3	% d.b.	2012FeedComp
Rice	Rice mill byproduct		Proximates	Protein, crude	7	% d.b.	2012FeedComp

Wheat	Wheat middlings		Proximates	Protein, crude	19	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Wheat	Wheat	Ground	Proximates	Protein, crude	10.9	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Beef	Rumen microbes	Mixed. Isolated from a continuous culture fermentation	Proximates	Protein, crude	46.2-46.9	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Poultry	Feather meal	Hydrolyzed	Proximates	Protein, crude	87	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Beta vulgaris	Proximates	Protein, crude	10	% d.b.	Utilization of fruit and vegetable wastes, FAO

Sugar beet	Sugar beet pulp		Proximates	Protein, crude	8	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Protein, crude	21.9	% d.b.	Utilization of fruit and vegetable wastes, FAO
Barley	Barley grain screenings		Proximates	Protein, crude	12	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Protein, crude	26	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Proximates	Protein, crude	47	% d.b.	2012FeedComp
Grape	Grape pomace	Stemless	Proximates	Protein, crude	12	% d.b.	2012FeedComp
Grape	Grape pomace/marc	Namily vitaceae	Proximates	Protein, crude	8.9-12.2	% d.b.	Fruit waste as feed paper

Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Protein, crude	6.54	% d.b.	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Protein, crude	5.38	% d.b.	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Protein, crude	12.34	% d.b.	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Proximates	Protein, crude	11.26	% d.b.	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Protein, crude	12.13	% d.b.	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape vine shoot	Vitis vinifera	Proximates	Protein, crude	4.8	% d.b.	Fruit waste as feed paper
Distillers grain	Distillers grain	Wet	Proximates	Protein, crude	28	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Proximates	Protein, crude	33	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Proximates	Protein, crude	33	% d.b.	2012FeedComp

Distillers grain	Distillers, corn	FL 4/99	Proximates	Protein, crude	31.3	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Distillers grain	Distillers, corn	Fl 5/99	Proximates	Protein, crude	28.3	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Nuts, unspecified	Nut hulls	Almond	Proximates	Protein, crude	3	% d.b.	2012FeedComp
Apple	Apple		Proximates	Protein, crude	3	% DM	2012FeedComp
Apple	Apple pomace	Wet	Proximates	Protein, crude	5	% d.b.	2012FeedComp
Banana	Banana		Proximates	Protein, crude	4	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Proximates	Protein, crude	9	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Proximates	Protein, crude	9	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Proximates	Protein, crude	11	% d.b.	2012FeedComp

Sugar beet	Sugar beet pulp, dried	Dried with molasses	Proximates	Protein, crude	11	% d.b.	2012FeedComp
Sugar beet	Sugar beet root		Proximates	Protein, crude	4	% d.b.	2012FeedComp
Sugar beet	Sugar beet tops		Proximates	Protein, crude	14	% d.b.	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Proximates	Protein, crude	12	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Proximates	Protein, crude	92	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Proximates	Protein, crude	13	% d.b.	2012FeedComp
Bread	Bread by product		Proximates	Protein, crude	14	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	Protein, crude	25	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Proximates	Protein, crude	48	% d.b.	2012FeedComp
Butter	Buttermilk, dried		Proximates	Protein, crude	34	% d.b.	2012FeedComp
Bread	Calcium carbonate		Proximates	Protein, crude	0	% d.b.	2012FeedComp
Carrot	Carrot pulp		Proximates	Protein, crude	6	% d.b.	2012FeedComp

Carrot	Carrot	Roots, fresh	Proximates	Protein, crude	10	% d.b.	2012FeedComp
Carrot	Carrot tops		Proximates	Protein, crude	13	% d.b.	2012FeedComp
Beef	Cattle manure, dried	Dried	Proximates	Protein, crude	15	% d.b.	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Proximates	Protein, crude	21	% d.b.	2012FeedComp
Coffee	Coffee grounds		Proximates	Protein, crude	13	% d.b.	2012FeedComp
Cotton	Cottonseed hulls		Proximates	Protein, crude	5	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Proximates	Protein, crude	47	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Proximates	Protein, crude	46	% d.b.	2012FeedComp
Crab	Crab waste meal		Proximates	Protein, crude	32	% d.b.	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Proximates	Protein, crude	31	% d.b.	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Proximates	Protein, crude	28	% d.b.	2012FeedComp
Crawfish	Crawfish waste meal		Proximates	Protein, crude	35	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Barley	Proximates	Protein, crude	30	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Proximates	Protein, crude	29	% d.b.	2012FeedComp

Distillers grain	Distillers grain	Corn, wet	Proximates	Protein, crude	29	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Proximates	Protein, crude	29	% d.b.	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Proximates	Protein, crude	29	% d.b.	2012FeedComp
Distillers grain	Distillers corn stillage		Proximates	Protein, crude	22	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Proximates	Protein, crude	33	% d.b.	2012FeedComp
Fish, unspecified	Fish meal		Proximates	Protein, crude	66	% d.b.	2012FeedComp
Flax/linseed	Flax seed hulls		Proximates	Protein, crude	9	% d.b.	2012FeedComp
Hop	Hop leaves		Proximates	Protein, crude	15	% d.b.	2012FeedComp
Hop	Hop vine silage		Proximates	Protein, crude	15	% d.b.	2012FeedComp
Hop	Hops	Spent	Proximates	Protein, crude	23	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Proximates	Protein, crude	38	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Proximates	Protein, crude	37	% d.b.	2012FeedComp
Poultry	Meat meal	Swine/poultry	Proximates	Protein, crude	56	% d.b.	2012FeedComp

Sugar beet	Sugar beet molasses		Proximates	Protein, crude	8	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses		Proximates	Protein, crude	6	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Proximates	Protein, crude	9	% d.b.	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Proximates	Protein, crude	16	% d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Proximates	Protein, crude	7	% d.b.	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Proximates	Protein, crude	51	% d.b.	2012FeedComp
Nuts, unspecified	Nut skins	Peanut	Proximates	Protein, crude	17	% d.b.	2012FeedComp
Pineapple	Pineapple greenchop		Proximates	Protein, crude	8	% d.b.	2012FeedComp
Pineapple	Pineapple bran		Proximates	Protein, crude	5	% d.b.	2012FeedComp
Pineapple	Pineapple presscake		Proximates	Protein, crude	5	% d.b.	2012FeedComp
Potato	Potato vine silage		Proximates	Protein, crude	15	% d.b.	2012FeedComp
Potato	Potato	Cull	Proximates	Protein, crude	10	% d.b.	2012FeedComp
Potato	Potato waste	Wet	Proximates	Protein, crude	7	% d.b.	2012FeedComp

Potato	Potato waste, dried	Dried	Proximates	Protein, crude	8	% d.b.	2012FeedComp
Potato	Potato waste	Wet with lime	Proximates	Protein, crude	5	% d.b.	2012FeedComp
Potato	Potato waste	Filter cake	Proximates	Protein, crude	5	% d.b.	2012FeedComp
Poultry	Poultry by product meal		Proximates	Protein, crude	62	% d.b.	2012FeedComp
Poultry	Poultry manure, dried	Dried	Proximates	Protein, crude	28	% d.b.	2012FeedComp
Rice	Rice straw		Proximates	Protein, crude	4	% d.b.	2012FeedComp
Rice	Rice straw	Ammoniated	Proximates	Protein, crude	9	% d.b.	2012FeedComp
Rice	Rice grain		Proximates	Protein, crude	8	% d.b.	2012FeedComp
Rice	Rice polishings		Proximates	Protein, crude	14	% d.b.	2012FeedComp
Rice	Rice bran		Proximates	Protein, crude	14	% d.b.	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Proximates	Protein, crude	24	% d.b.	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Proximates	Protein, crude	47	% d.b.	2012FeedComp
Safflower	Safflower hulls		Proximates	Protein, crude	4	% d.b.	2012FeedComp
Shrimp	Shrimp waste meal		Proximates	Protein, crude	50	% d.b.	2012FeedComp

Sunflower	Sunflower meal	Solv. Ext.	Proximates	Protein, crude	40	% d.b.	2012FeedComp
Sunflower	Sunflower meal	With hulls	Proximates	Protein, crude	31	% d.b.	2012FeedComp
Sunflower	Sunflower seed hulls		Proximates	Protein, crude	4	% d.b.	2012FeedComp
Sugar cane	Sugar cane bagasse		Proximates	Protein, crude	1	% d.b.	2012FeedComp
Tomatoes	Tomato		Proximates	Protein, crude	16	% d.b.	2012FeedComp
Wheat	Wheat	Fresh, pasture	Proximates	Protein, crude	20	% d.b.	2012FeedComp
Wheat	Wheat hay		Proximates	Protein, crude	9	% d.b.	2012FeedComp
Wheat	Wheat silage		Proximates	Protein, crude	12	% d.b.	2012FeedComp
Wheat	Wheat straw		Proximates	Protein, crude	3	% d.b.	2012FeedComp
Wheat	Wheat straw	Ammoniated	Proximates	Protein, crude	9	% d.b.	2012FeedComp
Wheat	Wheat grain		Proximates	Protein, crude	14	% d.b.	2012FeedComp
Wheat	Wheat grain	Hard	Proximates	Protein, crude	14	% d.b.	2012FeedComp
Wheat	Wheat grain	Soft	Proximates	Protein, crude	12	% d.b.	2012FeedComp
Wheat	Wheat grain	Steam flaked	Proximates	Protein, crude	14	% d.b.	2012FeedComp

Wheat	Wheat grain	Sprouted	Proximates	Protein, crude	12	% d.b.	2012FeedComp
Wheat	Wheat bran		Proximates	Protein, crude	17	% d.b.	2012FeedComp
Wheat	Wheat middlings		Proximates	Protein, crude	18	% d.b.	2012FeedComp
Wheat	Wheat mill run		Proximates	Protein, crude	17	% d.b.	2012FeedComp
Wheat	Wheat shorts		Proximates	Protein, crude	19	% d.b.	2012FeedComp
Cheese	Whey, dried	Dried	Proximates	Protein, crude	14	% d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Almond, WH	Proximates	Protein, crude	7.1	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Cotton	Cottonseed	Whole, FL 5/99	Proximates	Protein, crude	4.1	% d.b.	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Protein, crude	17	% d.b.	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Protein, crude	19.9	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Proximates	Protein, crude	9.9	% d.b.	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Proximates	Protein, crude	9.5	% d.b.	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Protein, crude	10.5	% d.b.	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Proximates	Protein, crude	7.7	% d.b.	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Proximates	Protein, crude	8.9-12.2	% d.b.	Utilization of fruit and vegetable wastes, FAO

Pineapple	Pineapple bran	Ananas comosus	Proximates	Protein, crude	4.6	% d.b.	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Protein, crude	22.1	% d.b.	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Protein, crude	8.1	% d.b.	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Proximates	Protein, crude	9.5	% d.b.	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Protein, crude	7.9	% d.b.	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Protein, crude	7.2	% d.b.	Utilization of fruit and vegetable wastes, FAO
Pineapple	Pineapple waste	Raw	Proximates	Protein, crude	4-8	% d.b.	Utilization of fruit and vegetable wastes, FAO

Carrot	Carrot	Daucus carota	Proximates	Protein, crude	9.9	% d.b.	Vegetable waste as animal feed paper
Carrot	Carrot pulp	Daucus carota	Proximates	Protein, crude	7.2	% d.b.	Vegetable waste as animal feed paper
Cucumber	Cucumber	Cucumis sativus	Proximates	Protein, crude	16.3	% d.b.	Vegetable waste as animal feed paper
Cucumber	Cucumber peel	Cucumis sativus	Proximates	Protein, crude	14.3	% d.b.	Vegetable waste as animal feed paper
Food, unspecified	Grocery by-product waste	Fruits, vegetables and bakery items from retail grocery stores	Proximates	Protein, crude	14.6	% d.b.	Vegetable waste as animal feed paper
Potato	Potato	Solanum tuberosum	Proximates	Protein, crude	9.5	% d.b.	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Proximates	Protein, crude	14-14.9	% d.b.	Vegetable waste as animal feed paper

Potato	Potato vines	Solanum tuberosum	Proximates	Protein, crude	19.4-26.1	% d.b.	Vegetable waste as animal feed paper
Pumpkin	Pumpkin oil meal	Cucurbita pepo	Proximates	Protein, crude	59.6	% d.b.	Vegetable waste as animal feed paper
Tomatoes	Tomato	L.esculentum	Proximates	Protein, crude	15.3-17	% d.b.	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Proximates	Protein, crude	19-22.1	% d.b.	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Proximates	Protein, crude	19.9	% d.b.	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Proximates	Protein, crude	17	% d.b.	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Protein, crude	21.9	% d.b.	Vegetable waste as animal feed paper

Carrot	Carrot	Cull carrots	Proximates	Protein, crude	10	% d.b.	Vegetable waste as animal feed paper
Bakery	Bakery product, dried	Dried	Proximates	Protein, crude	11	% d.b.	2012FeedComp
Canola	Canola meal	Solv. Ext.	Proximates	Protein, crude	41	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole	Proximates	Protein, crude	23	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Proximates	Protein, crude	24	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Proximates	Protein, crude	26	% d.b.	2012FeedComp
Grain, unspecified	Grain screenings		Proximates	Protein, crude	14	% d.b.	2012FeedComp
Grain, unspecified	Grain dust		Proximates	Protein, crude	10	% d.b.	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Proximates	Protein, crude	56	% d.b.	2012FeedComp
Milk	Milk, dried	Dry, skim	Proximates	Protein, crude	36	% d.b.	2012FeedComp

Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Protein, crude	46.72	% d.b.	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Protein, crude	46.18	% d.b.	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Protein, crude	46.02	% d.b.	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Sugar beet	Sugar beet pulp		Proximates	Protein, crude	8.57	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Protein, crude	6.03	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Protein, crude	9.61	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Rice	Rice bran		Proximates	Protein, crude	12.94	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Protein, crude	13.19	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Protein, crude	14.39	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Almond	Almond hulls		Proximates	Protein, crude	6.36	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Protein, crude	5.06	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Protein, crude	6.5	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Citrus, unspecified	Citrus pulp		Proximates	Protein, crude	5.84	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Protein, crude	6.6	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Protein, crude	6.87	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Bakery	Bakery waste		Proximates	Protein, crude	11.91	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Protein, crude	11.38	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Protein, crude	12.99	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Wheat	Wheat mill run		Proximates	Protein, crude	20.27	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Protein, crude	18.37	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Protein, crude	18.64	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Protein, crude	26.92	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Protein, crude	23.82	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Protein, crude	26.23	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Distillers grain	Distillers grain		Proximates	Protein, crude	29.52	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Protein, crude	30.12	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Protein, crude	29.06	% d.b.	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice hay		Proximates	Protein, crude	8.2	% d.b.	Feedipedia

Rice	Rice, aerial part	Fresh	Proximates	Protein, crude	10.3	% d.b.	Feedipedia
Rice	Rice straw		Proximates	Protein, crude	4.2	% d.b.	Feedipedia
Rice	Rice straw	Urea-treated	Proximates	Protein, crude	7.9	% d.b.	Feedipedia
Rice	Rice straw	Ammonia-treated	Proximates	Protein, crude	11	% d.b.	Feedipedia
Rice	Rice straw	NaOH-treated	Proximates	Protein, crude	2.9	% d.b.	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Protein, crude	4.1	% d.b.	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Protein, crude	2.5	% d.b.	Feedipedia
Sugar cane	Sugar cane leaves	Fresh	Proximates	Protein, crude	5.2	% d.b.	Feedipedia
Sugar cane	Sugar cane leaves, dried	Dry	Proximates	Protein, crude	2.2	% d.b.	Feedipedia
Wheat	Triticale grain		Proximates	Protein, crude	11.7	% d.b.	Feedipedia
Wheat	Triticale aerial part	Fresh	Proximates	Protein, crude	12.4	% d.b.	Feedipedia
Wheat	Triticale straw		Proximates	Protein, crude	3.2	% d.b.	Feedipedia
Wheat	Wheat hay		Proximates	Protein, crude	5.4	% d.b.	Feedipedia
Wheat	Wheat straw		Proximates	Protein, crude	4.2	% d.b.	Feedipedia
Wheat	Wheat forage	Fresh	Proximates	Protein, crude	11	% d.b.	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Protein, crude	6.5	% d.b.	Feedipedia
Palm	Oil palm fronds, dried	Dried, Elaeis guineensis	Proximates	Protein, crude	5.6	% d.b.	Feedipedia

Palm	Oil palm fronds	Silage	Proximates	Protein, crude	7.6	% d.b.	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Protein, crude	14.2	% d.b.	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Protein, crude	20.3	% d.b.	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Protein, crude	27.8	% d.b.	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Protein, crude	28.2	% d.b.	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Protein, crude	37.4	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Protein, crude	25.8	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Protein, crude	25.9	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Ensiled	Proximates	Protein, crude	29.2	% d.b.	Feedipedia
Rice	Rice grain	Polished	Proximates	Protein, crude	10.4	% d.b.	Feedipedia
Rice	Rice grain	Polished, parboiled	Proximates	Protein, crude	7.2	% d.b.	Feedipedia
Rice	Rice grain	Brown	Proximates	Protein, crude	10.5	% d.b.	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Protein, crude	23.5	% d.b.	Feedipedia

Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Protein, crude	29.5	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Protein, crude	44	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Protein, crude	27.9	% d.b.	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Protein, crude	31.8	% d.b.	Feedipedia
Distillery by-products, unspecified	Thin stillage		Proximates	Protein, crude	17.9	% d.b.	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Protein, crude	14.2	% d.b.	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Protein, crude	14.8	% d.b.	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Protein, crude	12.7	% d.b.	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Protein, crude	8.8	% d.b.	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Protein, crude	16	% d.b.	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Protein, crude	17.1	% d.b.	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Protein, crude	6.7	% d.b.	Feedipedia
Rice	Rice hull		Proximates	Protein, crude	3.7	% d.b.	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Protein, crude	8.3	% d.b.	Feedipedia

Sorghum	Sorghum bran and milling offal		Proximates	Protein, crude	11.7	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Protein, crude	26	% d.b.	Feedipedia
Sorghum	Malted sorghum sprouts		Proximates	Protein, crude	27.2	% d.b.	Feedipedia
Distillers grain	Distillers grain	Fresh, Sorghum, with or without solubles	Proximates	Protein, crude	35.5	% d.b.	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Protein, crude	33.5	% d.b.	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Protein, crude	25.3	% d.b.	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Protein, crude	47.9	% d.b.	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Protein, crude	14.7	% d.b.	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Protein, crude	10.8	% d.b.	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Protein, crude	10.2	% d.b.	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Protein, crude	11.8	% d.b.	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Protein, crude	10.7	% d.b.	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Protein, crude	11.2	% d.b.	Feedipedia

Wheat	Wheat starch		Proximates	Protein, crude	4.1	% d.b.	Feedipedia
Wheat	Wheat bran		Proximates	Protein, crude	17.3	% d.b.	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Protein, crude	37.3	% d.b.	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Protein, crude	31.4	% d.b.	Feedipedia
Wheat	Wheat germs		Proximates	Protein, crude	29.5	% d.b.	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Proximates	Protein, crude	6	% d.b.	Feedipedia
Wheat	Wheat grain		Proximates	Protein, crude	12.6	% d.b.	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Protein, crude	16.5	% d.b.	Feedipedia
Wheat	Wheat screenings		Proximates	Protein, crude	15.2	% d.b.	Feedipedia
Nuts, unspecified	Nut kernels	Almond	Proximates	Protein, crude	21.4	% d.b.	Feedipedia
Nuts, unspecified	Nut oil meal	Almond, dehulled, mechanical extraction	Proximates	Protein, crude	10.5	% d.b.	Feedipedia
Nuts, unspecified	Nut oil meal	Almond, with hulls, mechanical extraction	Proximates	Protein, crude	47.9	% d.b.	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Proximates	Protein, crude	14.9	% d.b.	Feedipedia

Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Proximates	Protein, crude	7.9	% d.b.	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Proximates	Protein, crude	39	% d.b.	Feedipedia
Argan	Argan oil cake	Solvent-extracted, Argania spinosa	Proximates	Protein, crude	52.2	% d.b.	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Protein, crude	22.6	% d.b.	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Proximates	Protein, crude	36.6	% d.b.	Feedipedia
Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Proximates	Protein, crude	14.9	% d.b.	Feedipedia
Castor	Castor hulls	Ricinus communis	Proximates	Protein, crude	28.8	% d.b.	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Protein, crude	38.5	% d.b.	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Protein, crude	17.8	% d.b.	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Protein, crude	28.3	% d.b.	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Protein, crude	7.7	% d.b.	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Protein, crude	22.4	% d.b.	Feedipedia

Coconut	Coconut copra	Oilmeal, solvent extraction	Proximates	Protein, crude	23.5	% d.b.	Feedipedia
Coconut	Coconut copra	Fresh	Proximates	Protein, crude	8.6	% d.b.	Feedipedia
Coconut	Coconut coir dust		Proximates	Protein, crude	2.3	% d.b.	Feedipedia
Coconut	Coconut water		Proximates	Protein, crude	4.4	% d.b.	Feedipedia
Cotton	Cotton straw		Proximates	Protein, crude	6.4	% d.b.	Feedipedia
Cotton	Cotton leaves	Fresh	Proximates	Protein, crude	12.2	% d.b.	Feedipedia
Cotton	Cottonseed hulls		Proximates	Protein, crude	5.1	% d.b.	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Protein, crude	47.3	% d.b.	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Protein, crude	45	% d.b.	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Protein, crude	37.4	% d.b.	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Protein, crude	40	% d.b.	Feedipedia
Flax/linseed	Flax straw		Proximates	Protein, crude	6.3	% d.b.	Feedipedia
Flax/linseed	Flax chaff		Proximates	Protein, crude	8.6	% d.b.	Feedipedia
Flax/linseed	Flax shives		Proximates	Protein, crude	5.3	% d.b.	Feedipedia
Flax/linseed	Flax, aerial part	Fresh	Proximates	Protein, crude	13.6	% d.b.	Feedipedia
Flax/linseed	Flax hay		Proximates	Protein, crude	11.2	% d.b.	Feedipedia
Grape	Grape seeds		Proximates	Protein, crude	10.1	% d.b.	Feedipedia

Grape	Grape seed oil meal	Oil <5%	Proximates	Protein, crude	11.4	% d.b.	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Proximates	Protein, crude	13	% d.b.	Feedipedia
Flax/linseed	Linseed meal		Proximates	Protein, crude	34.1	% d.b.	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Protein, crude	36.3	% d.b.	Feedipedia
Flax/linseed	Linseeds		Proximates	Protein, crude	23.7	% d.b.	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Protein, crude	25.6	% d.b.	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Protein, crude	28.9	% d.b.	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Protein, crude	14.9	% d.b.	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Protein, crude	14.3	% d.b.	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Protein, crude	15.3	% d.b.	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Protein, crude	12.8	% d.b.	Feedipedia
Mustard	Mustard oil meal	Mechanical extraction, Brassica sp.	Proximates	Protein, crude	34.9	% d.b.	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Protein, crude	26	% d.b.	Feedipedia
Mustard	Mustard seeds	Brassica sp.	Proximates	Protein, crude	23.4	% d.b.	Feedipedia
Palm	Oil palm kernels		Proximates	Protein, crude	9.5	% d.b.	Feedipedia

Olive	Olive oil cake	Crude, with stones	Proximates	Protein, crude	7.8	% d.b.	Feedipedia
Olive	Olive oil cake	Crude, without stones	Proximates	Protein, crude	9.5	% d.b.	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Protein, crude	12.7	% d.b.	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Proximates	Protein, crude	11	% d.b.	Feedipedia
Olive	Olive oil pulp	Crude	Proximates	Protein, crude	11.7	% d.b.	Feedipedia
Olive	Olive oil pulp	Exhausted	Proximates	Protein, crude	12.4	% d.b.	Feedipedia
Olive	Olive pits	Exhausted	Proximates	Protein, crude	1.2	% d.b.	Feedipedia
Olive	Olive kernels	Exhausted	Proximates	Protein, crude	32	% d.b.	Feedipedia
Olive	Olive skins		Proximates	Protein, crude	13.2	% d.b.	Feedipedia
Olive	Olive oil vegetation water		Proximates	Protein, crude	5.8	% d.b.	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Protein, crude	16.7	% d.b.	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Protein, crude	18.7	% d.b.	Feedipedia
Palm	Palm oil mill effluent	Decanted	Proximates	Protein, crude	11	% d.b.	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Protein, crude	12.3	% d.b.	Feedipedia
Palm	Palm press fibre	High oil	Proximates	Protein, crude	6.2	% d.b.	Feedipedia

Palm	Palm press fibre	Low oil	Proximates	Protein, crude	5.9	% d.b.	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Protein, crude	11.1	% d.b.	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Protein, crude	15.7	% d.b.	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Protein, crude	7	% d.b.	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Protein, crude	53.3	% d.b.	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Protein, crude	54.5	% d.b.	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Protein, crude	49.1	% d.b.	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Protein, crude	29.5	% d.b.	Feedipedia
Peanuts	Peanuts, with shells	With shells	Proximates	Protein, crude	20.4	% d.b.	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Protein, crude	16.9	% d.b.	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Protein, crude	36	% d.b.	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Protein, crude	39.3	% d.b.	Feedipedia

Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Protein, crude	24	% d.b.	Feedipedia
Pumpkin	Pumpkin	Fruits, fresh, Cucurbita sp.	Proximates	Protein, crude	14.5	% d.b.	Feedipedia
Pumpkin	Pumpkin	Fruits, dried, Cucurbita sp.	Proximates	Protein, crude	9.4	% d.b.	Feedipedia
Pumpkin	Pumpkin crop by-product	Fresh, Cucurbita sp.	Proximates	Protein, crude	19.8	% d.b.	Feedipedia
Pumpkin	Pumpkin hulls	Cucurbita sp.	Proximates	Protein, crude	19	% d.b.	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Protein, crude	59.6	% d.b.	Feedipedia
Pumpkin	Pumpkin oil meal	Mechanical extraction, Cucurbita sp.	Proximates	Protein, crude	63.2	% d.b.	Feedipedia
Pumpkin	Pumpkin seeds	With hulls, Cucurbita sp.	Proximates	Protein, crude	31.6	% d.b.	Feedipedia
Pumpkin	Pumpkin seeds	Without hulls, Cucurbita sp.	Proximates	Protein, crude	35.7	% d.b.	Feedipedia
Rape	Rape forage	Fresh	Proximates	Protein, crude	24.2	% d.b.	Feedipedia
Rape	Rape forage	Silage	Proximates	Protein, crude	18.5	% d.b.	Feedipedia
Rape	Rape forage, dried	Dehydrated	Proximates	Protein, crude	15.9	% d.b.	Feedipedia
Rape	Rape straw		Proximates	Protein, crude	5.8	% d.b.	Feedipedia
Rape	Rapeseed hulls		Proximates	Protein, crude	16.4	% d.b.	Feedipedia

Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Protein, crude	38.3	% d.b.	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Protein, crude	35.6	% d.b.	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Protein, crude	39.1	% d.b.	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Protein, crude	20.9	% d.b.	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Protein, crude	4.2	% d.b.	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Protein, crude	24.8	% d.b.	Feedipedia
Safflower	Safflower meal	Without hulls, expeller extraction. Carthamus tinctorius	Proximates	Protein, crude	44.4	% d.b.	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Protein, crude	15.6	% d.b.	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Protein, crude	44.9	% d.b.	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Protein, crude	48.5	% d.b.	Feedipedia

Sesame	Sesame seeds	Whole	Proximates	Protein, crude	23.4	% d.b.	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Protein, crude	15.7	% d.b.	Feedipedia
Soy	Soybean hay		Proximates	Protein, crude	15.9	% d.b.	Feedipedia
Soy	Soybean straw		Proximates	Protein, crude	6.9	% d.b.	Feedipedia
Soy	Soybean hulls		Proximates	Protein, crude	13.1	% d.b.	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Protein, crude	51.8	% d.b.	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Protein, crude	53.5	% d.b.	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Protein, crude	49.3	% d.b.	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Protein, crude	39.6	% d.b.	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Protein, crude	42.4	% d.b.	Feedipedia
Soy	Soybeans	Toasted	Proximates	Protein, crude	39.5	% d.b.	Feedipedia
Soy	Soybeans	Extruded	Proximates	Protein, crude	39.5	% d.b.	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Protein, crude	13	% d.b.	Feedipedia
Sunflower	Sunflower forage	Silage	Proximates	Protein, crude	12	% d.b.	Feedipedia

Sunflower	Sunflower stover (stalks and heads)		Proximates	Protein, crude	5.7	% d.b.	Feedipedia
Sunflower	Sunflower heads	Without seeds	Proximates	Protein, crude	9.8	% d.b.	Feedipedia
Sunflower	Sunflower stalks		Proximates	Protein, crude	7.3	% d.b.	Feedipedia
Sunflower	Sunflower hulls		Proximates	Protein, crude	7	% d.b.	Feedipedia
Sunflower	Sunflower screenings		Proximates	Protein, crude	9.1	% d.b.	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Protein, crude	32.4	% d.b.	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Protein, crude	37.7	% d.b.	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Protein, crude	31.3	% d.b.	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Protein, crude	27.9	% d.b.	Feedipedia
Sunflower	Sunflower seeds		Proximates	Protein, crude	16.6	% d.b.	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Protein, crude	37	% d.b.	Feedipedia

Nuts, unspecified	Nut hulls	Walnut (Juglans regia)	Proximates	Protein, crude	1.8	% d.b.	Feedipedia
Nuts, unspecified	Nut kernels	Walnut (Juglans regia)	Proximates	Protein, crude	15.1	% d.b.	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Protein, crude	47.9	% d.b.	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Proximates	Protein, crude	40.6	% d.b.	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, high fibre	Proximates	Protein, crude	27.2	% d.b.	Feedipedia
Melon	Watermelon, hulls	Citrullus lanatus	Proximates	Protein, crude	4.5	% d.b.	Feedipedia
Melon	Watermelon, seeds	Decorticated. Citrullus lanatus	Proximates	Protein, crude	34.5	% d.b.	Feedipedia
Melon	Watermelon, seeds	Whole. Citrullus lanatus	Proximates	Protein, crude	24.4	% d.b.	Feedipedia

Apple	Apple pomace, dried	Dehydrated	Proximates	Protein, crude	8	% d.b.	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Protein, crude	6.8	% d.b.	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Protein, crude	1.5	% DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Protein, crude	5.2	% d.b.	Feedipedia
Banana	Banana fruits, ensiled	Mature, ensiled	Proximates	Protein, crude	8	% d.b.	Feedipedia
Banana	Banana fruits	Mature, without peel, fresh	Proximates	Protein, crude	4.2	% d.b.	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Protein, crude	5.3	% d.b.	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Proximates	Protein, crude	5	% d.b.	Feedipedia
Banana	Banana fruits, ensiled	Immature, ensiled	Proximates	Protein, crude	4.9	% d.b.	Feedipedia
Banana	Banana fruits, dried	Immature, without peel, dehydrated	Proximates	Protein, crude	5.1	% d.b.	Feedipedia
Plantain	Plantain banana fruits	Fresh	Proximates	Protein, crude	4	% d.b.	Feedipedia
Plantain	Plantain banana fruits, dried	Dehydrated	Proximates	Protein, crude	5.1	% d.b.	Feedipedia
Plantain	Plantain banana fruits	Without peel, cooked	Proximates	Protein, crude	2.6	% d.b.	Feedipedia
Banana	Banana flour		Proximates	Protein, crude	16.7	% d.b.	Feedipedia

Banana	Banana shoots	Fresh	Proximates	Protein, crude	7.7	% d.b.	Feedipedia
Plantain	Plantain banana trunk	Fresh	Proximates	Protein, crude	3.5	% d.b.	Feedipedia
Banana	Banana leaves, dried	Dehydrated	Proximates	Protein, crude	14.6	% d.b.	Feedipedia
Banana	Banana stalks	Fresh	Proximates	Protein, crude	5.1	% d.b.	Feedipedia
Banana	Banana	Aerial part, fresh	Proximates	Protein, crude	16.6	% d.b.	Feedipedia
Plantain	Plantain banana shoots	Fresh	Proximates	Protein, crude	8.7	% d.b.	Feedipedia
Plantain	Plantain banana leaves	Fresh	Proximates	Protein, crude	9.5	% d.b.	Feedipedia
Banana	Banana peel	Mature, fresh	Proximates	Protein, crude	7.1	% d.b.	Feedipedia
Banana	Banana peel	Immature, fresh	Proximates	Protein, crude	6.7	% d.b.	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Proximates	Protein, crude	8.4	% d.b.	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Proximates	Protein, crude	8.3	% d.b.	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Protein, crude	6.5	% d.b.	Feedipedia
Citrus, unspecified	Citrus, dried	Fruits, dried	Proximates	Protein, crude	8.1	% d.b.	Feedipedia
Orange	Orange	Fruits, fresh	Proximates	Protein, crude	7.4	% DM	Feedipedia
Lime	Lime	Fruits (Citrus aurantiifolia)	Proximates	Protein, crude	11.3	% d.b.	Feedipedia

Grapefruit	Grapefruit	Fruits (Citrus paradisi), fresh	Proximates	Protein, crude	7	% d.b.	Feedipedia
Lemon	Lemon, dried	Fruits, dried	Proximates	Protein, crude	8.1	% d.b.	Feedipedia
Citrus, unspecified	Citrus molasses		Proximates	Protein, crude	5.8	% DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Protein, crude	7	% DM	Feedipedia
Orange	Orange pulp, dried		Proximates	Protein, crude	6.4	% DM	Feedipedia
Orange	Orange pulp, dried	Mandarin	Proximates	Protein, crude	7.9	% DM	Feedipedia
Lemon	Lemon pulp, dried		Proximates	Protein, crude	5.8	% DM	Feedipedia
Orange	Orange pulp	Fresh	Proximates	Protein, crude	6	% DM	Feedipedia
Grapefruit	Grapefruit pulp	Fresh	Proximates	Protein, crude	6.4	% DM	Feedipedia
Orange	Orange pulp	Clementine, fresh	Proximates	Protein, crude	5.9	% DM	Feedipedia
Orange	Orange pulp	Mandarin, fresh	Proximates	Protein, crude	8	% DM	Feedipedia
Lemon	Lemon pulp	Fresh	Proximates	Protein, crude	6.1	% DM	Feedipedia
Orange	Orange peel	Orange, fresh	Proximates	Protein, crude	6.8	% d.b.	Feedipedia
Orange	Orange peel silage	Orange	Proximates	Protein, crude	7.7	% d.b.	Feedipedia
Grapefruit	Grapefruit peel	Grapefruit, fresh	Proximates	Protein, crude	6.7	% d.b.	Feedipedia

Grapefruit	Grapefruit peel silage	Grapefruit	Proximates	Protein, crude	7.3	% d.b.	Feedipedia
Lime	Lime peel	Lime, fresh	Proximates	Protein, crude	7.8	% d.b.	Feedipedia
Lime	Lime peel silage	Lime	Proximates	Protein, crude	10.6	% d.b.	Feedipedia
Citrus, unspecified	Citrus seed meal		Proximates	Protein, crude	38.5	% d.b.	Feedipedia
Lime	Lime seeds	Lime (Citrus aurantiifolia)	Proximates	Protein, crude	21.9	% d.b.	Feedipedia
Coffee	Coffee hulls		Proximates	Protein, crude	9.4	% d.b.	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Protein, crude	11.3	% d.b.	Feedipedia
Coffee	Coffee parchment		Proximates	Protein, crude	6	% d.b.	Feedipedia
Coffee	Instant coffee by product		Proximates	Protein, crude	10.9	% d.b.	Feedipedia
Coffee	Coffee oil meal	By product of essential oil extraction	Proximates	Protein, crude	16.1	% d.b.	Feedipedia
Coffee	Coffee leaves		Proximates	Protein, crude	16.7	% d.b.	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Protein, crude	3.7	% d.b.	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Protein, crude	4.9	% d.b.	Feedipedia

Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Protein, crude	5.2	% d.b.	Feedipedia
Date	Date palm, pulp	Pulp, high ash, Phoenix dactylifera	Proximates	Protein, crude	4.9	% d.b.	Feedipedia
Date	Date palm leaves	Fresh	Proximates	Protein, crude	6.6	% d.b.	Feedipedia
Date	Date palm leaves, dried	Dry	Proximates	Protein, crude	4.8	% d.b.	Feedipedia
Date	Date palm pedicels		Proximates	Protein, crude	9.6	% d.b.	Feedipedia
Date	Date palm flower stems		Proximates	Protein, crude	3.2	% d.b.	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Protein, crude	13.7	% d.b.	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Protein, crude	11.6	% d.b.	Feedipedia
Grape	Grape pomace	Silage	Proximates	Protein, crude	12.9	% d.b.	Feedipedia
Melon	Melon	Aerial part, fresh. Cucumis melo	Proximates	Protein, crude	27.4	% d.b.	Feedipedia
Melon	Melon	Fruit, fresh. Cucumis melo	Proximates	Protein, crude	17.7	% d.b.	Feedipedia
Melon	Melon seeds	Cucumis melo	Proximates	Protein, crude	16.4	% d.b.	Feedipedia

Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Protein, crude	4.5	% d.b.	Feedipedia
Pineapple	Pineapple leaves	Fresh, Ananas comosus	Proximates	Protein, crude	9.1	% d.b.	Feedipedia
Pineapple	Pineapple leaves	Silage, Ananas comosus	Proximates	Protein, crude	6	% d.b.	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Protein, crude	16.7	% d.b.	Feedipedia
Tomatoes	Tomato plant	Fresh, whole plant	Proximates	Protein, crude	7.4	% d.b.	Feedipedia
Tomatoes	Tomato, leaves	Fresh	Proximates	Protein, crude	8.8	% d.b.	Feedipedia
Tomatoes	Tomato, stems	Fresh	Proximates	Protein, crude	5.4	% d.b.	Feedipedia
Melon	Watermelon	Aerial part, fresh. Citrullus lanatus	Proximates	Protein, crude	20	% d.b.	Feedipedia
Melon	Watermelon	Fruit, fresh. Citrullus lanatus	Proximates	Protein, crude	10	% d.b.	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Protein, crude	14.3	% d.b.	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Protein, crude	9.1	% d.b.	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Protein, crude	11.1	% d.b.	Feedipedia
Carrot	Carrot tops	Fresh	Proximates	Protein, crude	11.7	% d.b.	Feedipedia

Potato	Potato, aerial part	Ensiled	Proximates	Protein, crude	12.8	% d.b.	Feedipedia
Potato	Potato leaves, dried	Dried	Proximates	Protein, crude	17.5	% d.b.	Feedipedia
Potato	Potato aerial part	Fresh	Proximates	Protein, crude	10.9	% d.b.	Feedipedia
Potato	Potato peel	Fresh	Proximates	Protein, crude	13.1	% d.b.	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Protein, crude	10.8	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Protein, crude	9.3	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Protein, crude	9.9	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Protein, crude	8.6	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp	Silage	Proximates	Protein, crude	9.5	% d.b.	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Protein, crude	7.8	% d.b.	Feedipedia
Sugar beet	Sugar beet tops	Fresh	Proximates	Protein, crude	11.6	% d.b.	Feedipedia
Sugar beet	Sugar beet leaves and tops	Fresh	Proximates	Protein, crude	17.7	% d.b.	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Protein, crude	16.7	% d.b.	Feedipedia
Sugar beet	Sugar beet tops	Silage	Proximates	Protein, crude	10.6	% d.b.	Feedipedia

Sugar beet	Sugar beet tops, dried	Dried	Proximates	Protein, crude	13.9	% d.b.	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Protein, crude	16.5	% d.b.	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Protein, crude	13.2	% d.b.	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Protein, crude	5.5	% d.b.	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Protein, crude	4.6	% d.b.	Feedipedia
Potato	Sweet potato	Tubers, cooked, fresh	Proximates	Protein, crude	5.1	% d.b.	Feedipedia
Sugar	Sugar, feed grade		Proximates	Protein, crude	0	% d.b.	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Protein, crude	9.3	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Proximates	Protein, crude	1.8	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Dehydrated	Proximates	Protein, crude	2	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse, dried	Urea-treated, dehydrated	Proximates	Protein, crude	6.1	% d.b.	Feedipedia
Sugar by-products, unspecified	Bagasse	NaOH-treated, fresh	Proximates	Protein, crude	1.3	% d.b.	Feedipedia

Sugar by-products, unspecified	Bagasse pith		Proximates	Protein, crude	1.7	% d.b.	Feedipedia
Sugar cane	Sugar cane juice		Proximates	Protein, crude	0.8	% d.b.	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Protein, crude	5.5	% d.b.	Feedipedia
Sugar cane	Sugar cane, syrup-off		Proximates	Protein, crude	0.8	% d.b.	Feedipedia
Sugar cane	Sugar cane mud	Filter press mud	Proximates	Protein, crude	10.4	% d.b.	Feedipedia
Sugar cane	Sugar cane mud	Rotary-filter mud	Proximates	Protein, crude	15.1	% d.b.	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Protein, crude	4.9	% d.b.	Feedipedia
Sugar cane	Sugar cane tops	Silage	Proximates	Protein, crude	6.7	% d.b.	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Protein, crude	6.4	% d.b.	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Proximates	Protein, crude	24.1	% d.b.	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Protein, crude	62.7	% d.b.	Feedipedia

Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Protein, crude	69.3	% d.b.	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Protein, crude	69.3	% d.b.	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Protein, crude	12.2	% d.b.	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Protein, crude	95.9	% d.b.	Feedipedia
Lamb	Wool meal	Hydrolysed	Proximates	Protein, crude	51.6	% d.b.	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Protein, crude	94.1	% d.b.	Feedipedia
Animal by-products, unspecified	Blood meal	Preserved with acid	Proximates	Protein, crude	89.1	% d.b.	Feedipedia
Animal by-products, unspecified	Blood meal	Non-industrial	Proximates	Protein, crude	83.7	% d.b.	Feedipedia
Animal by-products, unspecified	Blood	Fresh	Proximates	Protein, crude	93.8	% d.b.	Feedipedia
Animal by-products, unspecified	Blood	Chicken, fresh	Proximates	Protein, crude	91.8	% d.b.	Feedipedia
Animal by-products, unspecified	Blood	Moist	Proximates	Protein, crude	86.6	% d.b.	Feedipedia

Animal by-products, unspecified	Bone meal	Calcinated	Proximates	Protein, crude	0	% d.b.	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Protein, crude	36	% d.b.	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Protein, crude	8	% d.b.	Feedipedia
Crab	Crab meal, dried	Dehydrated	Proximates	Protein, crude	26.3	% d.b.	Feedipedia
Crab	Crab meal	Fresh	Proximates	Protein, crude	32.3	% d.b.	Feedipedia
Crab	Crab shells	Ground	Proximates	Protein, crude	24.6	% d.b.	Feedipedia
Eggs	Eggshells		Proximates	Protein, crude	5.6	% d.b.	Feedipedia
Poultry	Feather meal		Proximates	Protein, crude	85.7	% d.b.	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Protein, crude	75.4	% d.b.	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Protein, crude	70.6	% d.b.	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Protein, crude	48.4	% d.b.	Feedipedia
Fish, unspecified	Fish hydrolysate		Proximates	Protein, crude	63.4	% d.b.	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Protein, crude	76.8	% d.b.	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Protein, crude	45.8	% d.b.	Feedipedia

Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Protein, crude	44.5	% d.b.	Feedipedia
Fish, unspecified	Fish solubles	Menhaden, fresh	Proximates	Protein, crude	62.1	% d.b.	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Protein, crude	67.7	% d.b.	Feedipedia
Frog	Frog meal	Whole frog	Proximates	Protein, crude	47.3	% d.b.	Feedipedia
Poultry	Hatchery by product		Proximates	Protein, crude	22.9	% d.b.	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Protein, crude	93.3	% d.b.	Feedipedia
Lamb	Lamb hooves	Raw	Proximates	Protein, crude	69.5	% d.b.	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Protein, crude	71.7	% d.b.	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Protein, crude	82.2	% d.b.	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Protein, crude	71.4	% d.b.	Feedipedia
Animal by-products, unspecified	Liver meal	Cattle	Proximates	Protein, crude	73.6	% d.b.	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Protein, crude	69.7	% d.b.	Feedipedia

Animal by-products, unspecified	Liver meal	Poultry	Proximates	Protein, crude	69	% d.b.	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Protein, crude	11.7	% d.b.	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Protein, crude	24.2	% d.b.	Feedipedia
Rabbit	Rabbit manure, dried	Dehydrated	Proximates	Protein, crude	20.2	% d.b.	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Protein, crude	54.9	% d.b.	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Protein, crude	62	% d.b.	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Protein, crude	60.2	% d.b.	Feedipedia
Poultry	Poultry by product meal	High protein	Proximates	Protein, crude	82.2	% d.b.	Feedipedia
Poultry	Poultry feet	Chicken, raw	Proximates	Protein, crude	53.4	% d.b.	Feedipedia
Poultry	Poultry heads	Chicken, raw	Proximates	Protein, crude	56.7	% d.b.	Feedipedia
Poultry	Poultry viscera	Chicken, raw	Proximates	Protein, crude	52.9	% d.b.	Feedipedia
Beef	Rumen content	Calves, fresh	Proximates	Protein, crude	16.3	% d.b.	Feedipedia
Beef	Rumen content	Cattle, fresh	Proximates	Protein, crude	16.2	% d.b.	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Protein, crude	20.8	% d.b.	Feedipedia

Beef	Rumen content	Lambs, fresh	Proximates	Protein, crude	28.8	% d.b.	Feedipedia
Shrimp	Shrimp heads	Fresh	Proximates	Protein, crude	47.9	% d.b.	Feedipedia
Shrimp	Shrimp heads, dried	Dehydrated	Proximates	Protein, crude	52.3	% d.b.	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Protein, crude	49.1	% d.b.	Feedipedia
Shrimp	Shrimp waste	Fresh	Proximates	Protein, crude	41.9	% d.b.	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Protein, crude	43.6	% d.b.	Feedipedia
Shrimp	Shrimp waste	Ensiled, fresh	Proximates	Protein, crude	26.9	% d.b.	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Protein, crude	63.5	% d.b.	Feedipedia
Snail	Snail meal	With shells	Proximates	Protein, crude	50.5	% d.b.	Feedipedia
Snail	Snail meal	Without shells	Proximates	Protein, crude	60.7	% d.b.	Feedipedia
Squid	Squid meal		Proximates	Protein, crude	69.4	% d.b.	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Protein, crude	45.9	% d.b.	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Protein, crude	43.5	% d.b.	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Protein, crude	47.8	% d.b.	Feedipedia
Toad	Toad meal		Proximates	Protein, crude	54.7	% d.b.	Feedipedia
Whale	Whale meal		Proximates	Protein, crude	75.6	% d.b.	Feedipedia
Whale	Whale solubles	Condensed	Proximates	Protein, crude	84	% d.b.	Feedipedia

Cheese	Whey, dried	Sweet, dehydrated	Proximates	Protein, crude	12.5	% d.b.	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Protein, crude	9.3	% d.b.	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Protein, crude	48.9	% d.b.	Feedipedia
Bakery	Bakery and viennoiserie by products		Proximates	Protein, crude	12.4	% DM	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Protein, crude	63.8	% d.b.	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Protein, crude	47.1	% d.b.	Feedipedia
Corn	Maize starch		Proximates	Protein, crude	0.8	% d.b.	Feedipedia
Pea	Pea starch		Proximates	Protein, crude	1	% d.b.	Feedipedia
Cassava	Cassava starch		Proximates	Protein, crude	0.1	% d.b.	Feedipedia
Apple	Apple pomace	From juice making	Proximates	Protein, crude	58.85	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making

Apple	Apple pomace	From puree making	Proximates	Protein, crude	56.75	g/kg DM	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace		Proximates	Protein, crude	74	g/kg DM	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace
Grape	Grape pomace		Proximates	Protein, crude	16	g/kg DM	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace

Wheat	Wheat		Proximates	Protein, crude	115	g/kg DM	Distillery feed by-products briefing
Wheat	Wheat grain	Dark	Proximates	Protein, crude	340	g/kg DM	Distillery feed by-products briefing
Wheat	Wheat meal		Proximates	Protein, crude	13	g/kg DM	Effect of diets with fruit oils supplements on rumen fermentation parameters, fatty acid composition and methane production in vitro
Sugar beet	Sugar beet molasses	From pulp	Proximates	Protein, crude	112	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Protein, crude	84	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Protein, crude	15	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet feed	Molassed	Proximates	Protein, crude	100	g/kg DM	Distillery feed by-products briefing
Rape	Rapeseed meal		Proximates	Protein, crude	400	g/kg DM	Distillery feed by-products briefing
Canola	Canola meal	Average of analysed values	Proximates	Protein, crude	417	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Brewer's yeast/grains, unspecified	Brewer's grains or draff (23% DM)		Proximates	Protein, crude	200	g/kg DM	Distillery feed by-products briefing

Grape	Grape pomace	Skin and seeds, white grape	Proximates	Protein, crude	122	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape pomace	Skin and seeds, red grape	Proximates	Protein, crude	89	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Distillers grain	Distillers grain	Wheat, dark grains	Proximates	Protein, crude	340	g/kg DM	Distillery feed by-products briefing
Distillers grain	Distillers grain	Malt, dark grains	Proximates	Protein, crude	265	g/kg DM	Distillery feed by-products briefing

Bamboo	Bamboo shoot shells		Proximates	Protein, crude	127	g/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Rice	Rice straw		Proximates	Protein, crude	58	g/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep

Wheat	Wheat bran		Proximates	Protein, crude	210	g/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Bamboo	Bamboo shoot shells	Ensiled	Proximates	Protein, crude	86	g/kg DM	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep

Soy	Soybean meal	Soya bean	Proximates	Protein, crude	500	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed cake		Proximates	Protein, crude	321	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rape	Rapeseed hulls	Purified	Proximates	Protein, crude	166.5	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Fish, unspecified	Fish meal		Proximates	Protein, crude	690	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Protein, crude	492	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Protein, crude	486	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Protein, crude	410	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Protein, crude	499	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Cabbage	Cabbage meal		Proximates	Protein, crude	142	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Protein, crude	78.8	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Protein, crude	70	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Protein, crude	279	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Protein, crude	381	g/kg DM	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Grape	Grape seeds	White, Italian	Proximates	Protein, crude	126	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Red, Italian	Proximates	Protein, crude	125	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Californian	Proximates	Protein, crude	119	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Not ensiled	Proximates	Protein, crude	122	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Ensiled for 45 days	Proximates	Protein, crude	125	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	White, Italian	Proximates	Protein, crude	99	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Red, Italian	Proximates	Protein, crude	106	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Californian	Proximates	Protein, crude	110	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Not ensiled	Proximates	Protein, crude	107	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Ensiled for 45 days	Proximates	Protein, crude	103	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Citrus, unspecified	Citrus pulp silage		Proximates	Protein, crude	73	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange	Fresh, whole	Proximates	Protein, crude	75	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus meal, dried		Proximates	Protein, crude	71	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Proximates	Protein, crude	69	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Protein, crude	67	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Proximates	Protein, crude	82	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Protein, crude	85	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange peel	Fresh	Proximates	Protein, crude	58	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange peel silage		Proximates	Protein, crude	81	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp silage		Proximates	Protein, crude	109	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Fresh	Proximates	Protein, crude	64	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Protein, crude	72	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp	Fresh	Proximates	Protein, crude	72	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Proximates	Protein, crude	66	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon, dried	Whole	Proximates	Protein, crude	81	g/kg DM	Citrus by-products as ruminant feeds: A review

Lemon	Lemon pulp, dried		Proximates	Protein, crude	90	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Protein, crude	314	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Protein, crude	334	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Protein, crude	366	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Protein, crude	395.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Protein, crude	386.7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Protein, crude	393.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Protein, crude	382.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Protein, crude	382.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Protein, crude	408.7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Protein, crude	398.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Protein, crude	377.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Protein, crude	400.7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Protein, crude	381.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Nuts, unspecified	Nut hulls	Almond	Proximates	Protein, crude	48.9	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Cotton	Cottonseed	Cracked Pima	Proximates	Protein, crude	218	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Canola	Canola meal	Pellets (380g/kg CP, solvent)	Proximates	Protein, crude	410	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Distillers grain	Distillers grain	High CP (corn with solubles)	Proximates	Protein, crude	395	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Wheat	Wheat	Silage	Proximates	Protein, crude	82.2	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Citrus, unspecified	Citrus pulp		Proximates	Protein, crude	72.1	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows
Potato	Potato	Tubers (whole)	Proximates	Protein, crude	79.8	g/kg DM	Determining the optimal ratio of canola meal and high protein dried distillers grain protein in diets of high producing Holstein dairy cows

Distillery by-products, unspecified	Distillers solids		Proximates	Protein, crude	565	g/kg DM	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Grapefruit	Grapefruit pulp	Fresh	Proximates	Protein, crude	71	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Mandarin, fresh	Proximates	Protein, crude	80	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses	Condensed solubles	Proximates	Protein, crude	106	g/kg DM	Citrus by-products as ruminant feeds: A review

Distillery by-products, unspecified	Distillers solubles	Citrus molasses	Proximates	Protein, crude	73	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried	Ammoniated	Proximates	Protein, crude	138	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Proximates	Protein, crude	71	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp, dried		Proximates	Protein, crude	77	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Proximates	Protein, crude	70	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Ammoniated	Proximates	Protein, crude	165	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp	Wet	Proximates	Protein, crude	66	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus seed meal	Mechanical extract	Proximates	Protein, crude	354	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses	Ammoniated	Proximates	Protein, crude	352	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp		Proximates	Protein, crude	66	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Proximates	Protein, crude	109	g/kg DM	Citrus by-products as ruminant feeds: A review
Grapefruit	Grapefruit pulp		Proximates	Protein, crude	81	g/kg DM	Citrus by-products as ruminant feeds: A review

Grapefruit	Grapefruit pulp, dried		Proximates	Protein, crude	67	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon pulp, dried		Proximates	Protein, crude	69	g/kg DM	Citrus by-products as ruminant feeds: A review
Lime	Lime pulp, dried		Proximates	Protein, crude	91	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange		Proximates	Protein, crude	75	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Wet	Proximates	Protein, crude	89	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange by-product, dried		Proximates	Protein, crude	83	g/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange pulp, dried	Ammoniated	Proximates	Protein, crude	165	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp silage		Proximates	Protein, crude	88	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried	Tangerine	Proximates	Protein, crude	81	g/kg DM	Citrus by-products as ruminant feeds: A review
Barley	Barley		Proximates	Protein, crude	132	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Soy	Soybean meal	Soyabean meal	Proximates	Protein, crude	501	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Protein, crude	542	g/kg DM	Wet barley distillers solids as a protein source for growing pigs

Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Protein, crude	331	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Protein, crude	776.7	g/kg	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Protein, crude	596.1	g/kg	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Protein, crude	699.1	g/kg	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Protein, crude	496.2	g/kg	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Protein, crude	420.9	g/kg	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Protein, crude	443.8	g/kg	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Protein, crude	429.9	g/kg	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Protein, crude	358.4	g/kg	Amino acid composition of processed fish silage using different raw materials

Tilapia	Tilapia residue silage	Acid	Proximates	Protein, crude	395.9	g/kg	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Fish meal	Low temperature dried	Proximates	Protein, crude	697	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed

Wheat	Wheat gluten		Proximates	Protein, crude	776	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed
Soy	Soy protein concentrate		Proximates	Protein, crude	604	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed

Nuts, unspecified	Nut meal	Babacu	Proximates	Protein, crude	116	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Proximates	Protein, crude	221	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cassava	Cassava meal		Proximates	Protein, crude	12	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Coconut	Coconut meal	Solv	Proximates	Protein, crude	253	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Proximates	Protein, crude	639	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cotton	Cottonseed meal	solv	Proximates	Protein, crude	373	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Poultry	Feather meal	Hydrolyzed	Proximates	Protein, crude	787	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Proximates	Protein, crude	414	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Rice	Rice bran	Defatted	Proximates	Protein, crude	154	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Soy	Soybean meal	solv	Proximates	Protein, crude	468	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Sugar cane	Sugar cane juice		Proximates	Protein, crude	3	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Proximates	Protein, crude	243	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Wheat	Wheat bran		Proximates	Protein, crude	158	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Canola	Juncea canola meal		Proximates	Protein, crude	392	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Canola	Canola meal		Proximates	Protein, crude	418	mg/g DM	A comparative study on amino acid availability of moist heated canla meal for poultry vs. ruminants

Rice	Rice bran		Proximates	Protein, crude	11.4-17.4	%	Bio-processing of agro-byproducts to animal feed
Rice	Rice hull		Proximates	Protein, crude	1.5-2.8	%	Bio-processing of agro-byproducts to animal feed
Wheat	Wheat bran		Proximates	Protein, crude	15.5	%	Bio-processing of agro-byproducts to animal feed
Beef	Rumen content	Abattoir waste	Proximates	Protein, crude	12.85	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Protein, crude	47.06	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Protein, crude	77.1	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer. Nx6.25	Proximates	Protein, crude	316	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana fruits	Plantain forage, collected at leafy stage in late summer. Nx6.25	Proximates	Protein, crude	159	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer. nx6.25	Proximates	Protein, crude	159	g/kg DM	Nutritive value of plantain and chicory for pigs
Apple	Apple pomace, dried		Proximates	Protein, crude	4.4-5.6	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals

Potato	Potato peel		Proximates	Protein, crude	16.7-17	%	Bioactives from fruit processing wastes: Green approaches to valuable chemicals
Potato	Potato peel		Proximates	Protein, crude	16.72	%	Production of alkaline protease by a thermophilic Bacillus subtilis under solid-state fermentation (SSF) condition using Imperata cylindrica grass and potato peel as low-cost medium: Characterization and application of enzyme in detergent formulation

Distillers grain	Distillers grain	Wet corn mash solids	Proximates	Protein, crude	250	g/kg DM	Distillers grains as an energy source and effect of drying on protein availability
Distillers grain	Distillers corn stillage	Thin. Liquid from corn mash. Distilled, alcohol removed	Proximates	Protein, crude	168	g/kg DM	Distillers grains as an energy source and effect of drying on protein availability
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Proximates	Protein, crude	4.38	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Proximates	Protein, crude	4.86	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rape	Rape straw	490 fully ripe rape straw samples collected in China	Proximates	Protein, crude	4.20	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Proximates	Protein, crude	5.77	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Potato	Potato peel	A review of different publications	Proximates	Protein, crude	123-170	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	A review of different publications	Proximates	Protein, crude	49-61	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production

Potato	Potato peel	Fermented. A review of different publications	Proximates	Protein, crude	18.0	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	Ensiled. A review of different publications	Proximates	Protein, crude	49-118	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	Solid fermented. A review of different publications	Proximates	Protein, crude	92.0	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp, dried	A review of different publications	Proximates	Protein, crude	70.4-165	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production

Grape	Grape seeds	White, Italian	Proximates	Protein, crude bound to ADF	134	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Red, Italian	Proximates	Protein, crude bound to ADF	143	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Californian	Proximates	Protein, crude bound to ADF	140	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Not ensiled	Proximates	Protein, crude bound to ADF	121	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Ensiled for 45 days	Proximates	Protein, crude bound to ADF	157	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	White, Italian	Proximates	Protein, crude bound to ADF	275	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Red, Italian	Proximates	Protein, crude bound to ADF	214	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Californian	Proximates	Protein, crude bound to ADF	183	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Not ensiled	Proximates	Protein, crude bound to ADF	170	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Ensiled for 45 days	Proximates	Protein, crude bound to ADF	278	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Nuts, unspecified	Nut meal	Babacu	Proximates	Protein, crude, apparent digestibility	779	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Proximates	Protein, crude, apparent digestibility	872	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cassava	Cassava meal		Proximates	Protein, crude, apparent digestibility	667	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Coconut	Coconut meal	Solv	Proximates	Protein, crude, apparent digestibility	621	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Proximates	Protein, crude, apparent digestibility	853	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cotton	Cottonseed meal	solv	Proximates	Protein, crude, apparent digestibility	729	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Poultry	Feather meal	Hydrolyzed	Proximates	Protein, crude, apparent digestibility	711	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Proximates	Protein, crude, apparent digestibility	834	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Rice	Rice bran	Defatted	Proximates	Protein, crude, apparent digestibility	678	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Soy	Soybean meal	solv	Proximates	Protein, crude, apparent digestibility	906	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Proximates	Protein, crude, apparent digestibility	779	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Wheat	Wheat bran		Proximates	Protein, crude, apparent digestibility	849	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Distillery by-products, unspecified	Distillers solids	Wet	Proximates	Protein, crude, digestible	510	g/kg DM	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs
Citrus, unspecified	Citrus pulp, dried		Proximates	Protein, crude, ethanol insoluble	51	g/kg DM	Citrus by-products as ruminant feeds: A review
Nuts, unspecified	Nut meal	Babacu	Proximates	Protein, digestible	105	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Nuts, unspecified	Nut meal	Cashew	Proximates	Protein, digestible	183	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cassava	Cassava meal		Proximates	Protein, digestible	80	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Proximates	Protein, digestible	170	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Corn	Corn gluten meal		Proximates	Protein, digestible	545	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cotton	Cottonseed meal	solv	Proximates	Protein, digestible	272	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Proximates	Protein, digestible	642	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Animal by-products, unspecified	Meat and bone meal		Proximates	Protein, digestible	345	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Rice	Rice bran	Defatted	Proximates	Protein, digestible	117	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Proximates	Protein, digestible	424	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Barley	Malt sprout meal		Proximates	Protein, digestible	151	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Wheat	Wheat bran		Proximates	Protein, digestible	134	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malted barley germs		Proximates	Protein, histone	75	%	NOSHAN
Rape	Rapeseed press cake		Proximates	Protein, mycosinase-associated	14	%	NOSHAN
Barley	Malted barley germs		Proximates	Protein, predicted	22	%	NOSHAN

Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Protein, resistant	2.3	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Protein, resistant	1.5	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Protein, resistant	4.52	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Proximates	Protein, resistant	3.65	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Protein, resistant	4.92	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Protein, resistant	35.17	% of crude protein	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Protein, resistant	27.88	% of crude protein	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Protein, resistant	36.63	% of crude protein	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Protein, resistant	32.42	% of crude protein	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Protein, resistant	40.56	% of crude protein	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Protein, rumen degradable	35.5	% of crude protein	Wet brewers' grains for beef cattle
Apple	Apple pomace		Proximates	Protein, soluble	0.49	g/kg	NOSHAN
Orange	Orange peel	Orange	Proximates	Protein, soluble	0	g/kg	NOSHAN
Hop	Hops		Proximates	Protein, soluble	5.8	g/kg	NOSHAN
Apple	Apple cake		Proximates	Protein, soluble	0.68	g/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Protein, soluble	8.98	g/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Protein, soluble	3.59	g/kg	NOSHAN
Cabbage	Cabbage		Proximates	Protein, soluble	2.28	g/kg	NOSHAN
Cheese	Cheese	Hard	Proximates	Protein, soluble	4.66	g/kg	NOSHAN

Cheese	Cheese	Soft	Proximates	Protein, soluble	0.88	g/kg	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Protein, soluble	1.67	g/kg	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Protein, soluble	1.58	g/kg	NOSHAN
Grape	Grape pomace		Proximates	Protein, soluble	1.94	g/kg	NOSHAN
Barley	Malted barley germs		Proximates	Protein, soluble	4.07	g/kg	NOSHAN
Barley	Malted barley germs		Proximates	Protein, soluble	4.1	g/kg	NOSHAN
Mushrooms	Mushrooms		Proximates	Protein, soluble	1.62	g/kg	NOSHAN
Olive	Olive pomace		Proximates	Protein, soluble	0.82	g/kg	NOSHAN
Onion	Onion hulls		Proximates	Protein, soluble	1.55	g/kg	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Protein, soluble	0	g/kg	NOSHAN
Potato	Potato	Selected	Proximates	Protein, soluble	1.59	g/kg	NOSHAN
Potato	Potato skin		Proximates	Protein, soluble	2.21	g/kg	NOSHAN
Rape	Rapeseed press cake		Proximates	Protein, soluble	3.54	g/kg	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Protein, soluble	1.85	g/kg	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Proximates	Protein, soluble	0.6	g/kg	NOSHAN
Tomatoes	Tomato skin		Proximates	Protein, soluble	1.37	g/kg	NOSHAN
Apple	Apple	Whole	Proximates	Protein, soluble	0.6	g/kg	NOSHAN
Pears	Pear	Whole	Proximates	Protein, soluble	0.4	g/kg	NOSHAN
Yoghurt	Yoghurt		Proximates	Protein, soluble	1.08	g/kg	NOSHAN
Apple	Apple pomace, dried	Powder	Proximates	Protein, soluble	3.14	g/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Proximates	Protein, soluble	4.4	g/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Proximates	Protein, soluble	3.4	g/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Proximates	Protein, soluble	3.1	g/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Sunflower	Sunflower oil cake	By-product. Helianthus annuus (seed)	Proximates	Protein, total	31.4	% DM	Cropgen database
Sunflower	Sunflower oil cake		Proximates	Protein, total	31.4	% DM	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake

Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Proximates	Protein, total	31.4	% DM	Cropgen database
Wheat	Wheat bran extract	High starch. Origin of glucose is mainly starch	Proximates	Protein, total	17.9	% DM	Comparison of two wheat bran extracts in the sheet extrusion process
Wheat	Wheat bran extract	High protein	Proximates	Protein, total	38.2	% DM	Comparison of two wheat bran extracts in the sheet extrusion process

Bolti	Bolti fish	Whole	Proximates	Protein, total	63.57	% DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Bolti	Bolti fish	Flesh only	Proximates	Protein, total	84.83	% DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate

Fish, unspecified	Fish protein isolate		Proximates	Protein, total	83.9	% DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Wheat	Wheat	Whole crop. Flowering cultivar Phelivan	Proximates	Protein, total	7.3	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Phelivan	Proximates	Protein, total	6.6	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Dough cultivar Phelivan	Proximates	Protein, total	5.9	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Flowering cultivar Gonen	Proximates	Protein, total	7	% DM	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Gonen	Proximates	Protein, total	6.3	% DM	ECN Phyllis 2

Wheat	Wheat	Whole crop. Dough cultivar Gonen	Proximates	Protein, total	5.6	% DM	ECN Phyllis 2
Tomatoes	Tomato pomace	Pulper stage of tomato processing for paste	Proximates	Protein, total	58.71	g/kg	Chemical
Tomatoes	Tomato pomace	Pulper stage of tomato processing for paste	Proximates	Protein, total	58.71	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	Finisher stage of tomato processing for paste	Proximates	Protein, total	30.61	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	Before turbopress stage of tomato processing for paste	Proximates	Protein, total	45.36	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	After turbopress stage of tomato processing for paste	Proximates	Protein, total	43.15	g/kg	Chemical characterization of tomato pomace
Mushrooms	Mushrooms		Proximates	Protein, uncharacterised	96	%	NOSHAN

Rape	Rapeseed press cake		Proximates	Protein, uncharacterised	49	%	NOSHAN
Apple	Apple pomace, dried	Dried	Proximates	Protein, undegradable intake	15	% d.b.	2012FeedComp
Citrus, unspecified	Citrus pulp, dried		Proximates	Protein, undegradable intake	38	% d.b.	2012FeedComp
Citrus, unspecified	Citrus molasses		Proximates	Protein, undegradable intake	0	% DM	2012FeedComp
Rice	Rice hull		Proximates	Protein, undegradable intake	45	% d.b.	2012FeedComp
Poultry	Feather meal	Hydrolyzed	Proximates	Protein, undegradable intake	68	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	Protein, undegradable intake	52	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Proximates	Protein, undegradable intake	30	% d.b.	2012FeedComp
Grape	Grape pomace	Stemless	Proximates	Protein, undegradable intake	45	% d.b.	2012FeedComp

Distillers grain	Distillers grain	Wet	Proximates	Protein, undegradable intake	52	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Proximates	Protein, undegradable intake	55	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Proximates	Protein, undegradable intake	53	% d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Almond	Proximates	Protein, undegradable intake	60	% d.b.	2012FeedComp
Apple	Apple		Proximates	Protein, undegradable intake	10	% DM	2012FeedComp
Apple	Apple pomace	Wet	Proximates	Protein, undegradable intake	10	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Proximates	Protein, undegradable intake	35	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Proximates	Protein, undegradable intake	44	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Proximates	Protein, undegradable intake	25	% d.b.	2012FeedComp

Sugar beet	Sugar beet pulp, dried	Dried with molasses	Proximates	Protein, undegradable intake	34	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Proximates	Protein, undegradable intake	82	% d.b.	2012FeedComp
Bread	Bread by product		Proximates	Protein, undegradable intake	24	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	Protein, undegradable intake	54	% d.b.	2012FeedComp
Butter	Buttermilk, dried		Proximates	Protein, undegradable intake	0	% d.b.	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Proximates	Protein, undegradable intake	56	% d.b.	2012FeedComp
Cotton	Cottonseed hulls		Proximates	Protein, undegradable intake	45	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Proximates	Protein, undegradable intake	42	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Proximates	Protein, undegradable intake	50	% d.b.	2012FeedComp

Crab	Crab waste meal		Proximates	Protein, undegradable intake	65	% d.b.	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Proximates	Protein, undegradable intake	45	% d.b.	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Proximates	Protein, undegradable intake	50	% d.b.	2012FeedComp
Crawfish	Crawfish waste meal		Proximates	Protein, undegradable intake	74	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Barley	Proximates	Protein, undegradable intake	56	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Proximates	Protein, undegradable intake	58	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Proximates	Protein, undegradable intake	54	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Proximates	Protein, undegradable intake	52	% d.b.	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Proximates	Protein, undegradable intake	0	% d.b.	2012FeedComp

Distillers grain	Distillers corn stillage		Proximates	Protein, undegradable intake	55	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Proximates	Protein, undegradable intake	62	% d.b.	2012FeedComp
Fish, unspecified	Fish meal		Proximates	Protein, undegradable intake	60	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Proximates	Protein, undegradable intake	36	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Proximates	Protein, undegradable intake	40	% d.b.	2012FeedComp
Poultry	Meat meal	Swine/poultry	Proximates	Protein, undegradable intake	64	% d.b.	2012FeedComp
Sugar beet	Sugar beet molasses		Proximates	Protein, undegradable intake	0	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses		Proximates	Protein, undegradable intake	0	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Proximates	Protein, undegradable intake	0	% d.b.	2012FeedComp

Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Proximates	Protein, undegradable intake	0	% d.b.	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Proximates	Protein, undegradable intake	27	% d.b.	2012FeedComp
Potato	Potato	Cull	Proximates	Protein, undegradable intake	0	% d.b.	2012FeedComp
Potato	Potato waste	Wet	Proximates	Protein, undegradable intake	0	% d.b.	2012FeedComp
Potato	Potato waste, dried	Dried	Proximates	Protein, undegradable intake	0	% d.b.	2012FeedComp
Potato	Potato waste	Wet with lime	Proximates	Protein, undegradable intake	0	% d.b.	2012FeedComp
Potato	Potato waste	Filter cake	Proximates	Protein, undegradable intake	0	% d.b.	2012FeedComp
Poultry	Poultry by product meal		Proximates	Protein, undegradable intake	49	% d.b.	2012FeedComp
Poultry	Poultry manure, dried	Dried	Proximates	Protein, undegradable intake	22	% d.b.	2012FeedComp

Rice	Rice grain		Proximates	Protein, undegradable intake	30	% d.b.	2012FeedComp
Rice	Rice bran		Proximates	Protein, undegradable intake	30	% d.b.	2012FeedComp
Shrimp	Shrimp waste meal		Proximates	Protein, undegradable intake	60	% d.b.	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Proximates	Protein, undegradable intake	27	% d.b.	2012FeedComp
Sunflower	Sunflower meal	With hulls	Proximates	Protein, undegradable intake	35	% d.b.	2012FeedComp
Sunflower	Sunflower seed hulls		Proximates	Protein, undegradable intake	65	% d.b.	2012FeedComp
Wheat	Wheat	Fresh, pasture	Proximates	Protein, undegradable intake	16	% d.b.	2012FeedComp
Wheat	Wheat hay		Proximates	Protein, undegradable intake	25	% d.b.	2012FeedComp
Wheat	Wheat silage		Proximates	Protein, undegradable intake	21	% d.b.	2012FeedComp

Wheat	Wheat straw		Proximates	Protein, undegradable intake	60	% d.b.	2012FeedComp
Wheat	Wheat straw	Ammoniated	Proximates	Protein, undegradable intake	25	% d.b.	2012FeedComp
Wheat	Wheat grain		Proximates	Protein, undegradable intake	23	% d.b.	2012FeedComp
Wheat	Wheat grain	Hard	Proximates	Protein, undegradable intake	28	% d.b.	2012FeedComp
Wheat	Wheat grain	Soft	Proximates	Protein, undegradable intake	23	% d.b.	2012FeedComp
Wheat	Wheat grain	Steam flaked	Proximates	Protein, undegradable intake	29	% d.b.	2012FeedComp
Wheat	Wheat grain	Sprouted	Proximates	Protein, undegradable intake	18	% d.b.	2012FeedComp
Wheat	Wheat bran		Proximates	Protein, undegradable intake	28	% d.b.	2012FeedComp
Wheat	Wheat middlings		Proximates	Protein, undegradable intake	22	% d.b.	2012FeedComp

Wheat	Wheat mill run		Proximates	Protein, undegradable intake	28	% d.b.	2012FeedComp
Wheat	Wheat shorts		Proximates	Protein, undegradable intake	25	% d.b.	2012FeedComp
Cheese	Whey, dried	Dried	Proximates	Protein, undegradable intake	15	% d.b.	2012FeedComp
Bakery	Bakery product, dried	Dried	Proximates	Protein, undegradable intake	30	% d.b.	2012FeedComp
Canola	Canola meal	Solv. Ext.	Proximates	Protein, undegradable intake	30	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole	Proximates	Protein, undegradable intake	38	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Proximates	Protein, undegradable intake	39	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Proximates	Protein, undegradable intake	50	% d.b.	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Proximates	Protein, undegradable intake	24	% d.b.	2012FeedComp

Milk	Milk, dried	Dry, skim	Proximates	Protein, undegradable intake	0	% d.b.	2012FeedComp
Potato	Potato peel	Potato peel waste extracted using methanol 4 degrees C	Simple phenols	Protocatechuic acid	2.44	mg/100g	Phenolics in Aqueous Potato Peel Extract: Extraction, Identification and Degradation
Potato	Potato peel	Potato peel waste extracted using water 25 degrees C	Simple phenols	Protocatechuic acid	0.78	mg/100g	Phenolics in Aqueous Potato Peel Extract: Extraction, Identification and Degradation
Potato	Potato peel	Potato peel waste extracted using water 100 degrees C refluxed	Simple phenols	Protocatechuic acid	3.77	mg/100g	Phenolics in Aqueous Potato Peel Extract: Extraction, Identification and Degradation

Potato	Potato peel	Potato peel waste liquid extract	Simple phenols	Protocatechuic acid	0.04	mg/g	Potato peel waste: stability and antioxidant activity of a freeze-dried extract
Potato	Potato peel	Potato peel waste freeze-dried extract (amount of freeze-dried extract/5g potato peel waste was 0.28g)	Simple phenols	Protocatechuic acid	0.75	mg/g	Potato peel waste: stability and antioxidant activity of a freeze-dried extract
Apple	Apple cake		Undesirable components	Putrescine	<1	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Undesirable components	Putrescine	15.2	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Putrescine	19.5	mg/kg	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Putrescine	17.1	mg/kg	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Putrescine	2.4	mg/kg	NOSHAN
Cheese	Cheese	Soft and hard	Undesirable components	Putrescine	12.9	mg/kg	NOSHAN

Cucumber	Cucumber	Sour	Undesirable components	Putrescine	128.4	mg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Putrescine	26.5	mg/kg	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	Putrescine	1232.9	mg/kg	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Putrescine	<1	mg/kg	NOSHAN
Fish, unspecified	Fish	Raw, fresh	Undesirable components	Putrescine	30	µg/g	Alternate protein sources for salmon and trout diets
Fish, unspecified	Fish	Raw, moderately fresh	Undesirable components	Putrescine	230	µg/g	Alternate protein sources for salmon and trout diets
Fish, unspecified	Fish	Raw, stale	Undesirable components	Putrescine	630	µg/g	Alternate protein sources for salmon and trout diets
Lemon	Lemon peel	Fresh	Vitamins	Pyridoxine	9.4	mg/kg DM	Citrus by-products as ruminant feeds: A review

Orange	Orange peel	Orange	Undesirable components	Pyripoxyfen	0.02	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Pyruvate decarboxylase isozyme	26	%	NOSHAN
Grape	Grape pomace, dried	Air dried	Flavonols	Quercetin	344	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Flavonols	Quercetin	392	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Flavonols	Quercetin	403	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Flavonols	Quercetin	0.96	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Flavonols	Quercetin	1.0	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Grape	Grape pomace, dried	Air dried	Flavonols	Quercetin-3-glucoside	609	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Flavonols	Quercetin-3-glucoside	475	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Flavonols	Quercetin-3-glucoside	564	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Air dried	Flavonols	Quercetin-3-glucuronide	1285	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace, dried	Accelerated air dried	Flavonols	Quercetin-3-glucuronide	990	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace	Untreated	Flavonols	Quercetin-3-glucuronide	1194	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Carrot	Carrot		Proximates	Raffinose	nd	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Apple	Apple pomace	From juice making	Waste compounds	Rapidly degraded fraction	30.55	%	Kinetics of digestion and fermentation of apple pomace from juice and puree making

Apple	Apple pomace	From puree making	Waste compounds	Rapidly degraded fraction	43.62	%	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Lemon	Sweet lemon pulp	Citrus limetta	Waste compounds	Rapidly soluble fraction	46.1	%	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Waste compounds	Rapidly soluble fraction	43	%	Utilization of fruit and vegetable wastes, FAO
Barley	Barley grain screenings		Waste compounds	Rapidly soluble fraction	71	%	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Waste compounds	Rapidly soluble fraction	85	%	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Waste compounds	Rapidly soluble fraction	79	%	2012FeedComp
Grape	Grape pomace	Stemless	Waste compounds	Rapidly soluble fraction	40	%	2012FeedComp
Distillers grain	Distillers grain	Wet	Waste compounds	Rapidly soluble fraction	90	%	2012FeedComp

Distillers grain	Distillers grain	Sorghum, wet	Waste compounds	Rapidly soluble fraction	86	%	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Waste compounds	Rapidly soluble fraction	85	%	2012FeedComp
Apple	Apple pomace	From juice making	Waste compounds	Rate of degradability	0.05	fraction/h	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace	From puree making	Waste compounds	Rate of degradability	0.08	fraction/h	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace	From juice making	Waste compounds	Rate of gas production	0.0275	fraction/h	Kinetics of digestion and fermentation of apple pomace from juice and puree making

Apple	Apple pomace	From puree making	Waste compounds	Rate of gas production	0.037	fraction/h	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Proximates	Resistant Starch	5.6	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Proximates	Resistant Starch	6.2	% DM	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Grape	Grape cane	Alphone Lavallee	Stilbenes	Resveratrol, trans	2.2	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Stilbenes	Resveratrol, trans	2.18	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Stilbenes	Resveratrol, trans	2.56	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Hafizali	Stilbenes	Resveratrol, trans	0.95	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Stilbenes	Resveratrol, trans	3.94	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Isabella	Stilbenes	Resveratrol, trans	2.96	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Italia	Stilbenes	Resveratrol, trans	1.42	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Stilbenes	Resveratrol, trans	1.42	µg/100g	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Stilbenes	Resveratrol, trans	2.62	µg/100g	Chemical composition of grape canes

Grape	Grape cane	Trakya Ilkeren	Stilbenes	Resveratrol, trans	1.88	µg/100g	Chemical composition of grape canes
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Retinol	0	µg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Retinol Equivalent	Tr	µg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Banana	Banana pintoza		Proximates	Rhamnan	0.34	% DM	ECN Phyllis 2
Hop	Hops		Proximates	Rhamnan	0.4	% DM	ECN Phyllis 2
Hop	Hops	Bast	Proximates	Rhamnan	0.3	% DM	ECN Phyllis 2
Pineapple	Pineapple		Proximates	Rhamnan	0.06	% DM	ECN Phyllis 2
Potato	Potato mash		Proximates	Rhamnan	0.18	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Rhamnan	0.2	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Rhamnan	0.1	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Rhamnan	0.16	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Rhamnan	0.2	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Rhamnan	0.1	% DM	ECN Phyllis 2

Coconut	Coconut pith		Proximates	Rhamnan	0.3	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Rhamnan	0.2	% DM	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Rhamnan	0.21	% DM	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Rhamnan	0.3	% DM	ECN Phyllis 2
Potato	Potato fibres	Pressed	Proximates	Rhamnose	100	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Rhamnose	52	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Buffer insoluble solids		Proximates	Rhamnose	31	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Supernatant from pressed potato fibre		Proximates	Rhamnose	48	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Rhamnose	47	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Rhamnose	74	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Rhamnose	29	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Pears	Pear pomace		Proximates	Rhamnose	11.3	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Comparative study of alkaline extraction process of hemicelluloses from pear pomace
Grape	Grape stalks		Proximates	Rhamnose	1.7	%	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Wine by-products, unspecified	Holocellulose		Proximates	Rhamnose	0.4	%	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Apple	Pectin	Extracted, apple	Proximates	Rhamnose	0.49	% w/w d.b	Pectin from apple pomace: extraction, characterization and utilization

Grape	Grape pomace	Deseeded, without stalk. Area of production: Alsace. Red and white grapes (Vitis vinifera)	Proximates	Rhamnose	0.43	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Aquitaine. Red and white grapes (Vitis vinifera)	Proximates	Rhamnose	0.67	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Beaujolais. Red and white grapes (Vitis vinifera)	Proximates	Rhamnose	0.29	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Bourgogne. Red and white grapes (Vitis vinifera)	Proximates	Rhamnose	0.58	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Champagne. Red and white grapes (Vitis vinifera)	Proximates	Rhamnose	0.34	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Languedoc. Red and white grapes (Vitis vinifera)	Proximates	Rhamnose	0.35	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Val de Loire. Red and white grapes (Vitis vinifera)	Proximates	Rhamnose	0.42	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Provence. Red and white grapes (Vitis vinifera)	Proximates	Rhamnose	0.37	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Potato	Potato fibres	Pressed	Proximates	Rhamnose	2	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Rhamnose	2	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Buffer insoluble solids		Proximates	Rhamnose	1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Proximates	Rhamnose	3	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Rhamnose	1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Rhamnose	2	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Rhamnose	2	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Apple	Apple pomace		Proximates	Rhamnose	39.04	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Orange	Orange peel	Orange	Proximates	Rhamnose	14	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Hop	Hops		Proximates	Rhamnose	13	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple cake		Proximates	Rhamnose	10.97	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Cabbage	Cabbage		Proximates	Rhamnose	23	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Rhamnose	7	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Grape	Grape pomace		Proximates	Rhamnose	7	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Olive	Olive pomace		Proximates	Rhamnose	54	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Onion	Onion hulls		Proximates	Rhamnose	20	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Rape	Rapeseed press cake		Proximates	Rhamnose	9.87	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Rhamnose	40	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Rhamnose	36	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Tomatoes	Tomato skin		Proximates	Rhamnose	7	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple	Whole	Proximates	Rhamnose	15	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Pears	Pear	Whole	Proximates	Rhamnose	17	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple pomace		Proximates	Rhamnose	34.96	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Orange	Orange peel	Orange	Proximates	Rhamnose	26	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Apple	Apple cake		Proximates	Rhamnose	21.85	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage		Proximates	Rhamnose	39	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Cucumber	Cucumber	Sour	Proximates	Rhamnose	11	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Grape	Grape pomace		Proximates	Rhamnose	10	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Olive	Olive pomace		Proximates	Rhamnose	47	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Onion	Onion hulls		Proximates	Rhamnose	21	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Rape	Rapeseed press cake		Proximates	Rhamnose	8.88	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Cabbage	Cabbage	Sour	Proximates	Rhamnose	41	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Rhamnose	25	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Tomatoes	Tomato skin		Proximates	Rhamnose	10	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Pears	Pear	Whole	Proximates	Rhamnose	19	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet molasses	From pulp	Proximates	Rhamnose	7	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet pulp		Proximates	Rhamnose	4	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Rhamnose	1	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Carrot	Carrot		Proximates	Rhamnose	2	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Rye	Seed residue		Proximates	Rhamnose	1	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Rhamnose	7	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Rhamnose	1	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Rhamnose	5	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Rhamnose	7	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Rhamnose	12	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Rhamnose	0.1	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Rhamnose	0.2	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet molasses	From pulp	Proximates	Rhamnose	4	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Hop	Hops		Proximates	Rhamnose	13	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Apple	Apple	Whole	Proximates	Rhamnose	15	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet pulp		Proximates	Rhamnose	4	I-NCP (g/kg dm)	NOSHAN

Sugar beet	Sugar beet		Proximates	Rhamnose	1	I-NCP (g/kg dm)	NOSHAN
Carrot	Carrot		Proximates	Rhamnose	2	I-NCP (g/kg dm)	NOSHAN
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Riboflavin	0.02	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Citrus, unspecified	Citrus meal, dried		Vitamins	Riboflavin	2.7	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Vitamins	Riboflavin	2.5	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Vitamins	Riboflavin	9.2	mg/kg DM	Citrus by-products as ruminant feeds: A review

Lemon	Lemon peel	Fresh	Vitamins	Riboflavin	4.3	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Vitamins	Riboflavin	9.1	mg/kg DM	Citrus by-products as ruminant feeds: A review
Apple	Apple pomace		Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Orange	Orange peel	Orange	Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Hop	Hops		Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Apple	Apple cake		Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage		Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Grape	Grape pomace		Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Olive	Olive pomace		Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Onion	Onion hulls		Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Rape	Rapeseed press cake		Proximates	Ribose	7.32	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Tomatoes	Tomato skin		Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Apple	Apple	Whole	Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Pears	Pear	Whole	Proximates	Ribose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Orange	Orange peel	Orange	Proximates	Ribose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Rape	Rapeseed press cake		Proximates	Ribose	4.68	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Apple	Apple pomace		Proximates	Ribose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Hop	Hops		Proximates	Ribose		Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Apple	Apple cake		Proximates	Ribose		Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage		Proximates	Ribose		Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Ribose		Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Grape	Grape pomace		Proximates	Ribose		Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Olive	Olive pomace		Proximates	Ribose		Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Onion	Onion hulls		Proximates	Ribose		Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Ribose		Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Ribose		Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Tomatoes	Tomato skin		Proximates	Ribose		Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Apple	Apple	Whole	Proximates	Ribose		Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Pears	Pear	Whole	Proximates	Ribose		Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Apple	Apple pomace		Inorganics	Rubidium	2.76	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Rubidium	3.83	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Rubidium	21.98	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Rubidium	6.93	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Rubidium	4.55	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Rubidium	3.26	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Rubidium	0.5	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Rubidium	21.01	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Rubidium	0.68	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Rubidium	0.98	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Rubidium	0.64	ppm d.b.	NOSHAN

Grape	Grape pomace		Inorganics	Rubidium	9.89	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Rubidium	7.12	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Rubidium	11.9	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Rubidium	15.47	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Rubidium	3.21	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Rubidium	5.59	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Rubidium	4.27	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Rubidium	5.91	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Rubidium	5.83	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Rubidium	10.88	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Rubidium	4.34	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Rubidium	11.62	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Rubidium	9	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Rubidium	11.21	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Rubidium	7.07	ppm d.b.	NOSHAN
Lemon	Sweet lemon pulp	Citrus limetta	Waste compounds	Rumen fill	8.2	kg	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Waste compounds	Rumen fill	15.4	kg	Utilization of fruit and vegetable wastes, FAO

Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Flavonols	Rutin	0.06	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Flavonols	Rutin	0.06	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Hop	Hops		Proximates	Saccharose	10.1	g/kg	NOSHAN
Barley	Malted barley germs		Proximates	Saccharose	9.7	g/kg	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Saccharose	48.6	g/kg	NOSHAN
Apple	Apple pomace		Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN

Orange	Orange peel	Orange	Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN
Cheese	Whey	Milk	Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN
Grape	Grape pomace		Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN
Mushrooms	Mushrooms		Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN
Olive	Olive pomace		Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN
Tomatoes	Tomato skin		Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN
Apple	Apple	Whole	Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN
Pears	Pear	Whole	Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Salmonella spp	0	cfu/25g	NOSHAN

Rye	Seed residue		Waste compounds	Sand	69	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Waste compounds	Sand	9	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Grape	Grape seeds	White, Italian	Waste compounds	Saponins	40	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Red, Italian	Waste compounds	Saponins	47	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Californian	Waste compounds	Saponins	48	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Not ensiled	Waste compounds	Saponins	54	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Ensiled for 45 days	Waste compounds	Saponins	37	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	White, Italian	Waste compounds	Saponins	47	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Red, Italian	Waste compounds	Saponins	26	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Californian	Waste compounds	Saponins	32	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Not ensiled	Waste compounds	Saponins	44	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Ensiled for 45 days	Waste compounds	Saponins	25	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Saturated fatty acid	30.2	g/100g fat	NOSHAN
Barley	Malted barley germs		Proximates	Saturated fatty acid	17.5	g/100g fat	NOSHAN
Barley	Malted barley germs		Proximates	Saturated fatty acid	28.4	g/100g fat	NOSHAN
Olive	Olive pomace		Proximates	Saturated fatty acid	13.14	g/100g fat	NOSHAN
Rape	Rapeseed press cake		Proximates	Saturated fatty acid	9.11	g/100g fat	NOSHAN

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Saturated fatty acids	Tr	g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Inorganics	Selenium	Tr	µg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Poultry	Hatchery waste		Inorganics	Selenium	0.89	mg/kg	Composition of Australian meat chicken hatchery waste
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Selenium	6.5	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Selenium	2	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Selenium	5	mg/kg DM	ECN Phyllis 2
Apple	Apple pomace		Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Selenium	0.11	ppm d.b.	NOSHAN

Cabbage	Cabbage		Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Selenium	0.26	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Selenium	0.29	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Selenium	4.09	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Selenium	0.01	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Selenium	0.1	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Selenium	<0.01	ppm d.b.	NOSHAN

Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Selenium	<0.070	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations
Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Inorganics	Selenium	0.13	mg/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK
Food, unspecified	Food leftovers	Source segregated domestic food waste in Luton, UK	Inorganics	Selenium	0.28	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Hackney, UK	Inorganics	Selenium	0.10	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Source segregated domestic food waste in Ludlow, UK	Inorganics	Selenium	<0.07	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Eastleigh, UK	Inorganics	Selenium	0.11	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Selenium	0.02	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Selenium	0.05	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Selenium	0.04	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Selenium	0.07	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Apple	Apple pomace		Proximates	Serine	1.85	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Serine	3.8	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Serine	4.76	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Serine	6.03	mg/g dry matter	NOSHAN
Apple	Apple cake		Proximates	Serine	1.25	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Serine	18.31	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Serine	10.4	mg/g dry matter	NOSHAN

Cabbage	Cabbage		Proximates	Serine	3.1	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Serine	22.28	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Serine	16.92	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Serine	32.2	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Serine	4.73	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Serine	3.93	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Serine	9.05	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Serine	10.52	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Serine	11.62	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Serine	2.31	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Serine	2.34	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Serine	1.19	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Serine	2.25	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Serine	2.27	mg/g dry matter	NOSHAN

Rape	Rapeseed press cake		Proximates	Serine	11.61	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Serine	2.19	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Serine	5.02	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Serine	0.96	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Serine	0.69	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Serine	1.15	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Serine	11.53	mg/g dry matter	NOSHAN
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Serine	11.7	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Serine	16.8	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Rape	Rapeseed hulls	Purified	Proximates	Serine	8	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Cabbage	Cabbage meal		Proximates	Serine	4.4	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology
Orange	Orange pulp, dried		Proximates	Serine	1.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Serine	15.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Serine	14.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Serine	15.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Serine	14.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Serine	14.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Serine	15.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Serine	15	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Serine	14.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Serine	15.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Serine	15.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rye	Seed residue		Proximates	Serine	4.17	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Serine	4.49	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Serine	4.42	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Fruit and vegetables, unspecified	Pectin residue		Proximates	Serine	4.71	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Serine	4.14	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Serine	5.23	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Wheat	Wheat		Proximates	Serine	4.83	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Serine	4.49	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Serine	4.82	% protein	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Serine	10.39	% protein	Chemical characterization of tomato pomace

Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Serine	4.66	% protein	Chemical characterizatio n of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Serine	5.16	% protein	Chemical characterizatio n of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Serine	4.7	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Serine	4.5	% protein	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Serine	4.2	% protein	Feedipedia
Palm	Oil palm leaflets	Fresh	Proximates	Serine	3.9	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Serine	4	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Serine	4.5	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Serine	4	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Serine	5.3	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Serine	4.9	% protein	Feedipedia

Barley	Barley rootlets	Dehydrated	Proximates	Serine	3.1	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Serine	4.7	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Serine	4.3	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Serine	4.5	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Serine	4.3	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Serine	4.3	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Serine	4.6	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Serine	4	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Serine	4.8	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Serine	4.5	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Serine	4.3	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Serine	7.9	% protein	Feedipedia

Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Serine	4.3	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Serine	4.5	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Serine	4.6	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Serine	4.3	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Serine	4.4	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Serine	4.4	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Serine	4.3	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Serine	4.4	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Serine	4.5	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Serine	3.7	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Serine	4.5	% protein	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Serine	4.7	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Serine	5	% protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Serine	4.4	% protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Serine	4.6	% protein	Feedipedia

Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Serine	4.2	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Serine	4.2	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Serine	4.4	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Serine	4.1	% protein	Feedipedia
Grape	Grape seeds		Proximates	Serine	3.9	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Serine	4.8	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Serine	5	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Serine	3.8	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Serine	3.7	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Serine	4.6	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Serine	4	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Serine	4.3	% protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Serine	4.4	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Serine	6.9	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Serine	4.2	% protein	Feedipedia

Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Serine	4.3	% protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Serine	4.4	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Serine	5	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Serine	5.1	% protein	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Serine	6.1	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Serine	0.5	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Serine	4.4	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Serine	4.8	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Serine	4.5	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Serine	4.4	% protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Serine	4.3	% protein	Feedipedia

Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Serine	4.3	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Serine	4.5	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Serine	4.8	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Serine	3.9	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Serine	5	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Serine	5	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Serine	4.6	% protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Serine	4.4	% protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Serine	5	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Serine	6.1	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Serine	4.9	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Serine	4.8	% protein	Feedipedia
Sunflower	Sunflower screenings		Proximates	Serine	7.9	% protein	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Serine	4.2	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Serine	4.1	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Serine	4.3	% protein	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Serine	3.8	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Serine	4.2	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Serine	4.2	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Serine	4.4	% protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Serine	2.9	% protein	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Serine	2.6	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Serine	3.3	% protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Serine	1.6	% protein	Feedipedia

Date	Date palm fruits	Phoenix dactylifera	Proximates	Serine	3.8	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Serine	2.2	% protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Serine	5.4	% protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Serine	3.4	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Serine	2.6	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Serine	2.1	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Serine	4	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Serine	3.5	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Serine	5.3	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Serine	4.2	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Serine	5.4	% protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Serine	4.1	% protein	Feedipedia

Potato	Sweet potato leaf protein concentrate		Proximates	Serine	4.3	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Serine	5.8	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Serine	5.3	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Serine	1.9	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Serine	3.8	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Serine	0.8	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Serine	0.2	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Serine	0.1	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Serine	7.5	% protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Serine	4.9	% protein	Feedipedia
Poultry	Feather meal		Proximates	Serine	11.4	% protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Serine	4	% protein	Feedipedia

Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Serine	3.9	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Serine	3.5	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Serine	5.5	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Serine	4.9	% protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Serine	7	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Serine	3.3	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Serine	4.1	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Serine	4	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Serine	4.5	% protein	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Serine	6.3	% protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Serine	3.3	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Serine	4	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Serine	4.2	% protein	Feedipedia

Cheese	Whey, dried	Sweet, dehydrated	Proximates	Serine	4.4	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Serine	4	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Serine	4.3	% protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Serine	4.9	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Serine	6.3	% protein	Feedipedia
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Serine	1.12	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Serine	3.14	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Serine	39.8	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Olive	Olive leaves		Proximates	Serine	44.9	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Serine	0.94	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Serine	0.93	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Serine	0.97	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Canola	Canola meal	Average of analysed values	Proximates	Serine	17.8	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Hop	Hops		Proximates	Serine	16.84	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Serine	1.46	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Serine	0.25	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Serine	2	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Serine	0.32	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Serine	1.51	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Serine	0.18	mg/g DM	NOSHAN

Barley	Malted barley germs		Proximates	Serine	4.82	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Serine	1.47	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Serine	0.77	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Serine	0	mg/g DM	NOSHAN
Apple	Apple pomace		Proximates	Serine	0	% D AA	NOSHAN
Orange	Orange peel	Orange	Proximates	Serine	0	% D AA	NOSHAN
Cheese	Whey	Milk	Proximates	Serine	0	% D AA	NOSHAN
Hop	Hops		Proximates	Serine	0	% D AA	NOSHAN
Apple	Apple cake		Proximates	Serine	0	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Serine	0	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Serine	0.45	% D AA	NOSHAN
Cabbage	Cabbage		Proximates	Serine	0	% D AA	NOSHAN
Cheese	Cheese	Hard	Proximates	Serine	0.28	% D AA	NOSHAN
Cheese	Cheese	Soft	Proximates	Serine	0	% D AA	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Serine	0	% D AA	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Serine	0	% D AA	NOSHAN
Grape	Grape pomace		Proximates	Serine	0.71	% D AA	NOSHAN
Barley	Malted barley germs		Proximates	Serine	0	% D AA	NOSHAN

Mushrooms	Mushrooms		Proximates	Serine	0	% D AA	NOSHAN
Olive	Olive pomace		Proximates	Serine	0	% D AA	NOSHAN
Onion	Onion hulls		Proximates	Serine	0	% D AA	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Serine	0	% D AA	NOSHAN
Potato	Potato	Selected	Proximates	Serine	0.57	% D AA	NOSHAN
Potato	Potato skin		Proximates	Serine	1.28	% D AA	NOSHAN
Rape	Rapeseed press cake		Proximates	Serine	0	% D AA	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Serine	0	% D AA	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Serine	0	% D AA	NOSHAN
Tomatoes	Tomato skin		Proximates	Serine	0	% D AA	NOSHAN
Apple	Apple	Whole	Proximates	Serine	0	% D AA	NOSHAN
Pears	Pear	Whole	Proximates	Serine	0	% D AA	NOSHAN
Yoghurt	Yoghurt		Proximates	Serine	0	% D AA	NOSHAN
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Serine	2.71	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Serine	3.23	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Saltwater fish silage	Acid	Proximates	Serine	4.49	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Serine	3.39	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Serine	3.52	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Serine	5.53	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Serine	2.04	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Tilapia	Tilapia residue silage	Fermented	Proximates	Serine	3.72	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Serine	5.11	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Serine	10.9	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Serine	6.5	g/kg DM	Nutritive value of plantain and chicory for pigs
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Serine	147.85	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Milk	Milk	Granadina goats, Spain	Proximates	Serine	152.65	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Serine	6.5	g/16g N	Feedipedia
Millet	Millet husk		Waste compounds	Shrinkage temperature	1360	°C	ECN Phyllis 2
Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Silicon	20000	mg/kg DM	ECN Phyllis 2

Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Silicon	45000	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Silicon	17000	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Silicon	13707	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Silicon	7200	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Silicon	44000	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Silicon	6734	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Silicon	58619.2	mg/kg DM	ECN Phyllis 2

Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Silicon	75783.7	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Silicon	7600	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Silicon	650	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Silicon	4000	mg/kg DM	ECN Phyllis 2
Olive	Olive cake		Inorganics	Silicon	14000	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Silicon	530	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Silicon	7929.1	mg/kg DM	ECN Phyllis 2
Olive	Olive residue	Sample lot size: 60kg. Country: Spain	Inorganics	Silicon	10858.7	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Silicon	5671	mg/kg DM	ECN Phyllis 2
Apple	Apple pomace		Inorganics	Silicon	<10	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Silicon	28	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Silicon	26	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Silicon	522	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Silicon	336.48	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Silicon	311.43	ppm d.b.	NOSHAN

Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Silicon	690.9	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Silicon	393.93	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Silicon	65.67	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Silicon	53.06	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Silicon	0	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Silicon	435	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Silicon	1827.97	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Silicon	267	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Silicon	2465	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Silicon	576.91	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Silicon	605	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Silicon	47	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Silicon	293	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Silicon	10	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Silicon	245.05	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Silicon	391	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Silicon	215	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Silicon	70.6	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Silicon	185	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Silicon	945	ppm d.b.	NOSHAN

Rice	Rice husk	Before soaking pre-treatment	Inorganics	Silicon dioxide (SiO2)	88.94	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk, dried	Soaked rice husks, dried	Inorganics	Silicon dioxide (SiO2)	91.22	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk		Inorganics	Silicon dioxide (SiO2)	87.7	% ash	Combustion behaviour of rice husk in a bubbling fluidised bed
Sugar cane	Sugar cane trash	Tops and leaves	Inorganics	Silicon dioxide (SiO2)	57.38	% ash	ECN Phyllis 2
Sugar beet	Sugar beet		Inorganics	Silicon dioxide (SiO2)	21.7	% ash	ECN Phyllis 2

Aubergine	Aubergine plant		Inorganics	Silicon dioxide (SiO2)	7.40	% ash	ECN Phyllis 2
Bean	Bean plant		Inorganics	Silicon dioxide (SiO2)	8.98	% ash	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Silicon dioxide (SiO2)	8.1	% ash	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Silicon dioxide (SiO2)	4.79	% ash	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Silicon dioxide (SiO2)	5.86	% ash	ECN Phyllis 2
Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Silicon dioxide (SiO2)	3.45	% ash	ECN Phyllis 2

Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Silicon dioxide (SiO2)	6.63	% ash	ECN Phyllis 2
Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Silicon dioxide (SiO2)	10.2	% ash	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Silicon dioxide (SiO2)	4.48	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Silicon dioxide (SiO2)	7.17	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Silicon dioxide (SiO2)	12.22	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Silicon dioxide (SiO2)	10.7	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Silicon dioxide (SiO2)	3.5	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Silicon dioxide (SiO2)	4.9	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Silicon dioxide (SiO2)	9.28	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Silicon dioxide (SiO2)	7.12	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash fusion temperatures according to ASTM D-1857	Inorganics	Silicon dioxide (SiO2)	18.6	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Silicon dioxide (SiO2)	4	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Silicon dioxide (SiO2)	8.71	% ash	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Silicon dioxide (SiO2)	22.6	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Silicon dioxide (SiO2)	12.52	% ash	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Silicon dioxide (SiO2)	22.1	% ash	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Silicon dioxide (SiO2)	69.3	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Silicon dioxide (SiO2)	27.3	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Silicon dioxide (SiO2)	0.98	% ash	ECN Phyllis 2
Olive	Olive		Inorganics	Silicon dioxide (SiO2)	23.1	% ash	ECN Phyllis 2

Olive	Olive		Inorganics	Silicon dioxide (SiO2)	29.81	% ash	ECN Phyllis 2
Olive	Olive	Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Silicon dioxide (SiO2)	10.5	% ash	ECN Phyllis 2
Olive	Olive cake		Inorganics	Silicon dioxide (SiO2)	27	% ash	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Silicon dioxide (SiO2)	29.4	% ash	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Silicon dioxide (SiO2)	30.82	% ash	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Silicon dioxide (SiO2)	33.1	% ash	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Silicon dioxide (SiO2)	16.72	% ash	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Silicon dioxide (SiO2)	36.2	% ash	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Silicon dioxide (SiO2)	18.86	% ash	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Silicon dioxide (SiO2)	22.72	% ash	ECN Phyllis 2
Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Silicon dioxide (SiO2)	32.6	% ash	ECN Phyllis 2

Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Silicon dioxide (SiO2)	43.57	% ash	ECN Phyllis 2
Olive	Orujillo	Wood matter from pressed oil stone	Inorganics	Silicon dioxide (SiO2)	18.2	% ash	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Silicon dioxide (SiO2)	13.5	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Silicon dioxide (SiO2)	8.23	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Silicon dioxide (SiO2)	8.22	% ash	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Silicon dioxide (SiO2)	3	% ash	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Inorganics	Silicon dioxide (SiO2)	0.4	% ash	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Silicon dioxide (SiO2)	16.9	% ash	ECN Phyllis 2

Rice	Rice husk	Ash	Inorganics	Silicon dioxide (SiO2)	66.12	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Silica powder	Inorganics	Silicon dioxide (SiO2)	99.6	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Silicon dioxide (SiO2)	95.9	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Silicon dioxide (SiO2)	85.6	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Silicon dioxide (SiO2)	95.8	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Silicon dioxide (SiO2)	84.3	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Silicon dioxide (SiO2)	75	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Silicon dioxide (SiO2)	94	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Silicon dioxide (SiO2)	85.9	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Silicon dioxide (SiO2)	92	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Silicon dioxide (SiO2)	85.4	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Silicon dioxide (SiO2)	55	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Silicon dioxide (SiO2)	91.7	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Silicon dioxide (SiO2)	88.8	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Silicon dioxide (SiO2)	70.6	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Silicon dioxide (SiO2)	77.8	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Silicon dioxide (SiO2)	76	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk, dried	Powder	Inorganics	Silicon dioxide (SiO2)	13	% mass fraction	Development of photoluminescent glass derived from rice husk
Apple	Apple pomace		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Silver	<0.01	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN

Onion	Onion hulls		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Silver	<0.1	ppm d.b.	NOSHAN
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Phytosterols	Sitostanol	3.72	mg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains

Grain, unspecified	Oil extracted from distillers dried grains with soluble		Phytosterols	Sitosterol	10.3	mg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Apple	Apple pomace	From juice making	Waste compounds	Slowly degraded fraction	67.43	%	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple pomace	From puree making	Waste compounds	Slowly degraded fraction	51.87	%	Kinetics of digestion and fermentation of apple pomace from juice and puree making
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Inorganics	Sodium	3	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013

Apple	Apple pomace, dried	Powder	Inorganics	Sodium	0.2	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Sodium	0.18	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Sodium	0.14	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Sodium	0.15	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Inorganics	Sodium	0.03	%	Wet brewers' grains for beef cattle
Grape	Grape stalks		Inorganics	Sodium	<0.01	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Apple	Apple pomace	Malus domestica	Inorganics	Sodium	0.04	% DM basis	Waste to worth: fruit wastes and by-products as animal feed

Apple	Apple pomace, dried	Powder	Inorganics	Sodium	0.208	% DM basis	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Sodium	0.184	% DM basis	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Sodium	0.146	% DM basis	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Sodium	0.155	% DM basis	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Sodium	0.02	% DM basis	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lucopersicum	Inorganics	Sodium	0.10-0.12	% DM basis	Vegetable waste as animal feed paper; Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Sodium	0.31	% DM basis	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Sodium	1.76	% DM basis	Utilization of fruit and vegetable wastes, FAO

Grape	Grape pomace/marc	Namily vitaceae	Inorganics	Sodium	0.09	% DM basis	Utilization of fruit and vegetable wastes, FAO; Fruit waste as feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Inorganics	Sodium	0.39	% DM basis	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Inorganics	Sodium	0.43	% DM basis	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Sodium	1.04	% DM basis	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Inorganics	Sodium	0.01	% DM basis	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Inorganics	Sodium	0.02	% DM basis	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Inorganics	Sodium	0.04	% DM basis	Utilization of fruit and vegetable wastes, FAO

Grape	Grape pomace	Namily vitaceae	Inorganics	Sodium	0.09	% DM basis	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Sodium	0.12	% DM basis	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Inorganics	Sodium	0.01	% DM basis	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Inorganics	Sodium	0.49	% DM basis	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Inorganics	Sodium	0.21	% DM basis	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Inorganics	Sodium	1	% DM basis	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Sodium	1.04	% DM basis	Vegetable waste as animal feed paper

Carrot	Carrot pulp	Daucus carota	Inorganics	Sodium	1	% DM basis	Vegetable waste as animal feed paper
Potato	Potato	Solanum tuberosum	Inorganics	Sodium	0.01	% DM basis	Vegetable waste as animal feed paper
Potato	Liquid potato feed	Solanum tuberosum	Inorganics	Sodium	0.03	% DM basis	Vegetable waste as animal feed paper
Pumpkin	Pumpkin oil meal	Cucurbita pepo	Inorganics	Sodium	0.03	% DM basis	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Sodium	0.1-0.12	% DM basis	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Inorganics	Sodium	0.43	% DM basis	Vegetable waste as animal feed paper
Cauliflower	Cauliflower leaves	Brassica oleracea	Inorganics	Sodium	0.39	% DM basis	Vegetable waste as animal feed paper

Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Sodium	1.76	% DM basis	Vegetable waste as animal feed paper
Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Sodium	0.52	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Sodium	0.79	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Sodium	0.69	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Sodium	0.63	% DM basis	Composted slaughterhouse waste as organic fertilizer

Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Inorganics	Sodium	0.45	% DM	Composted slaughterhouse waste as organic fertilizer
Grape	Grape marc		Inorganics	Sodium	70.62	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Inorganics	Sodium	86.62	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape peels		Inorganics	Sodium	56.84	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape seeds		Inorganics	Sodium	20.17	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Inorganics	Sodium	38.82	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape meal	Extraction meal	Inorganics	Sodium	33.18	mg/kg DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato peel		Inorganics	Sodium	189.6	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Inorganics	Sodium	44.5	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato cake		Inorganics	Sodium	45.4	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato meal		Inorganics	Sodium	52.2	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Inorganics	Sodium	85.5	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato residues	Wet	Inorganics	Sodium	67.8	mg/kg DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Sodium	448.8	mg/kg DM	ECN Phyllis 2
Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Sodium	610	mg/kg DM	ECN Phyllis 2

Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Sodium	180	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Sodium	740	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Sodium	4055	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Sodium	3600	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Sodium	3400	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Sodium	3700	mg/kg DM	ECN Phyllis 2
Rice	Rice straw char	Char from pyrolysis at 490°C	Inorganics	Sodium	21393	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Sodium	162	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Sodium	6160.9	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Sodium	7849.5	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Sodium	29	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Sodium	49	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Sodium	700	mg/kg DM	ECN Phyllis 2
Olive	Olive cake		Inorganics	Sodium	830	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Sodium	121.5	mg/kg DM	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Sodium	690	mg/kg DM	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Sodium	1750	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Sodium	718.5	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Sodium	249	mg/kg DM	ECN Phyllis 2
Citrus, unspecified	Citrus pulp silage		Inorganics	Sodium	0.9	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus meal, dried		Inorganics	Sodium	1.1	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Sodium	0.6	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Inorganics	Sodium	0.9	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Sodium	4.0	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Sodium	0.9	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Sodium	5.8	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Sodium	0.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Inorganics	Sodium	0.04	g/kg DM	Citrus by-products as ruminant feeds: A review

Distillery by-products, unspecified	Distillers solids		Inorganics	Sodium	10.6	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Rice	Rice straw		Inorganics	Sodium	2.7	g/kg DM	Feedipedia
Rice	Rice straw	Urea-treated	Inorganics	Sodium	4.7	g/kg DM	Feedipedia
Rice	Rice straw	NaOH-treated	Inorganics	Sodium	0.4	g/kg DM	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Inorganics	Sodium	0.5	g/kg DM	Feedipedia
Wheat	Triticale grain		Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Wheat	Triticale straw		Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Wheat	Wheat straw		Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Palm	Oil palm fronds	Fresh	Inorganics	Sodium	0.5	g/kg DM	Feedipedia
Palm	Oil palm leaflets	Fresh	Inorganics	Sodium	0.4	g/kg DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Inorganics	Sodium	0.5	g/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Inorganics	Sodium	2.4	g/kg DM	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Inorganics	Sodium	0.9	g/kg DM	Feedipedia

Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Inorganics	Sodium	0.3	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Inorganics	Sodium	0.3	g/kg DM	Feedipedia
Rice	Rice grain	Brown	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Inorganics	Sodium	0.3	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Inorganics	Sodium	2.4	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Inorganics	Sodium	1.3	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Inorganics	Sodium	6.3	g/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Inorganics	Sodium	0.6	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Inorganics	Sodium	0.4	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Inorganics	Sodium	1.3	g/kg DM	Feedipedia
Rice	Rice hull		Inorganics	Sodium	0.3	g/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Inorganics	Sodium	0.3	g/kg DM	Feedipedia

Sorghum	Sorghum bran and milling offal		Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Inorganics	Sodium	1.9	g/kg DM	Feedipedia
Sorghum	Sorghum gluten feed		Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Sorghum	Sorghum gluten meal		Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Inorganics	Sodium	0.4	g/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Inorganics	Sodium	0.3	g/kg DM	Feedipedia
Wheat	Wheat bran		Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Inorganics	Sodium	4.9	g/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Inorganics	Sodium	2.7	g/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Inorganics	Sodium	0.3	g/kg DM	Feedipedia
Wheat	Wheat grain		Inorganics	Sodium	0	g/kg DM	Feedipedia
Wheat	Wheat screenings		Inorganics	Sodium	0.2	g/kg DM	Feedipedia

Argan	Argan leaves, dried	Dried, Argania spinosa	Inorganics	Sodium	3.2	g/kg DM	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Inorganics	Sodium	1.9	g/kg DM	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Inorganics	Sodium	0.4	g/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Inorganics	Sodium	1.3	g/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Inorganics	Sodium	1.1	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Inorganics	Sodium	0.6	g/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Inorganics	Sodium	0.6	g/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Inorganics	Sodium	0.9	g/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Inorganics	Sodium	0.3	g/kg DM	Feedipedia

Cotton	Cottonseed meal	High fibre, high oil	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Inorganics	Sodium	0.9	g/kg DM	Feedipedia
Grape	Grape seeds		Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Flax/linseed	Linseed meal		Inorganics	Sodium	0.8	g/kg DM	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Inorganics	Sodium	1.4	g/kg DM	Feedipedia
Flax/linseed	Linseeds		Inorganics	Sodium	0.5	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Inorganics	Sodium	0.4	g/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Inorganics	Sodium	0.8	g/kg DM	Feedipedia
Corn	Maize germ	Oil <30%	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Corn	Maize germ	Oil >30%	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Inorganics	Sodium	0.7	g/kg DM	Feedipedia
Olive	Olive oil cake	Crude, without stones	Inorganics	Sodium	2	g/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Inorganics	Sodium	0.3	g/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Inorganics	Sodium	0.8	g/kg DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Inorganics	Sodium	0.1	g/kg DM	Feedipedia

Palm	Palm kernel meal	Mechanical extraction	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Palm	Palm oil mill effluent	Decanted	Inorganics	Sodium	1.9	g/kg DM	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Palm	Palm press fibre	High oil	Inorganics	Sodium	1.9	g/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Inorganics	Sodium	0.4	g/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Inorganics	Sodium	0.6	g/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Inorganics	Sodium	0	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Inorganics	Sodium	0	g/kg DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Inorganics	Sodium	1.3	g/kg DM	Feedipedia

Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Inorganics	Sodium	0.3	g/kg DM	Feedipedia
Rape	Rapeseed hulls		Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Inorganics	Sodium	0.5	g/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Soy	Soybean hulls		Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Inorganics	Sodium	0.1	g/kg DM	Feedipedia

Soy	Soybean meal	High oil (expeller)	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Inorganics	Sodium	0	g/kg DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Soy	Soybeans	Toasted	Inorganics	Sodium	0	g/kg DM	Feedipedia
Soy	Soybeans	Extruded	Inorganics	Sodium	0	g/kg DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Sunflower	Sunflower hulls		Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Sunflower	Sunflower screenings		Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Inorganics	Sodium	0.1	g/kg DM	Feedipedia

Sunflower	Sunflower meal	Mechanically-extracted	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Sunflower	Sunflower seeds		Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), mechanical extraction, low fibre	Inorganics	Sodium	0	g/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Inorganics	Sodium	2.7	g/kg DM	Feedipedia
Apple	Apple pomace	Fresh	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Banana	Banana fruits	Immature, fresh	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Banana	Banana stalks	Fresh	Inorganics	Sodium	0.7	g/kg DM	Feedipedia
Banana	Banana peel	Mature, fresh	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Banana	Banana peel	Immature, fresh	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Inorganics	Sodium	1.2	g/kg DM	Feedipedia
Coffee	Coffee hulls		Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Coffee	Instant coffee by product		Inorganics	Sodium	0.4	g/kg DM	Feedipedia

Grape	Grape pomace	Dehydrated	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Grape	Grape pomace	Silage	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Melon	Melon	Aerial part, fresh. Cucumis melo	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Melon	Watermelon	Aerial part, fresh. Citrullus lanatus	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Sugar beet	Sugar beet molasses		Inorganics	Sodium	7.2	g/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Inorganics	Sodium	2.8	g/kg DM	Feedipedia
Potato	Potato peel	Fresh	Inorganics	Sodium	0.3	g/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Inorganics	Sodium	0.7	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Inorganics	Sodium	2.7	g/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Inorganics	Sodium	0.5	g/kg DM	Feedipedia

Sugar beet	Sugar beet pulp	Silage	Inorganics	Sodium	0.3	g/kg DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Inorganics	Sodium	0.8	g/kg DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Inorganics	Sodium	3.7	g/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Inorganics	Sodium	0.2	g/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Inorganics	Sodium	1.9	g/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Inorganics	Sodium	0.1	g/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Inorganics	Sodium	2.4	g/kg DM	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Inorganics	Sodium	0	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Inorganics	Sodium	13.7	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Inorganics	Sodium	14.2	g/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Inorganics	Sodium	14.2	g/kg DM	Feedipedia

Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Inorganics	Sodium	21.8	g/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal		Inorganics	Sodium	4.5	g/kg DM	Feedipedia
Animal by-products, unspecified	Bone meal	Calcinated	Inorganics	Sodium	10	g/kg DM	Feedipedia
Poultry	Feather meal		Inorganics	Sodium	1.3	g/kg DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Inorganics	Sodium	10.9	g/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Inorganics	Sodium	11.3	g/kg DM	Feedipedia
Fish, unspecified	Fish oil		Inorganics	Sodium	0	g/kg DM	Feedipedia
Fish, unspecified	Fish protein concentrate		Inorganics	Sodium	5.3	g/kg DM	Feedipedia
Frog	Frog meal	Whole frog	Inorganics	Sodium	1.6	g/kg DM	Feedipedia
Poultry	Hatchery by product		Inorganics	Sodium	2.4	g/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Inorganics	Sodium	2.3	g/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	Cattle	Inorganics	Sodium	2.3	g/kg DM	Feedipedia
Beef	Cattle manure	Fresh	Inorganics	Sodium	1.6	g/kg DM	Feedipedia

Poultry	Poultry manure, dried	Dehydrated, poultry	Inorganics	Sodium	5.9	g/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Inorganics	Sodium	7.5	g/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Inorganics	Sodium	7.5	g/kg DM	Feedipedia
Poultry	Offal meal	Poultry	Inorganics	Sodium	2.7	g/kg DM	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Inorganics	Sodium	15.5	g/kg DM	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Inorganics	Sodium	2.9	g/kg DM	Feedipedia
Snail	Snail meal	With shells	Inorganics	Sodium	2.2	g/kg DM	Feedipedia
Snail	Snail meal	Without shells	Inorganics	Sodium	23.2	g/kg DM	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Inorganics	Sodium	6.3	g/kg DM	Feedipedia
Toad	Toad meal		Inorganics	Sodium	1.9	g/kg DM	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Inorganics	Sodium	7	g/kg DM	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Inorganics	Sodium	7.6	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Inorganics	Sodium	1.8	g/kg DM	Feedipedia

Bakery	Bakery and viennoiserie by products		Inorganics	Sodium	6.8	g/kg DM	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Inorganics	Sodium	7	g/kg DM	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Inorganics	Sodium	0.5	g/kg DM	Feedipedia
Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Sodium	0.98	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Sodium	1.12	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Sodium	0.41	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Sodium	0.57	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Bolti	Bolti fish	Whole	Inorganics	Sodium	1411.75	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate

Bolti	Bolti fish	Flesh only	Inorganics	Sodium	442.67	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Fish, unspecified	Fish protein isolate		Inorganics	Sodium	709.47	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Poultry	Hatchery waste		Inorganics	Sodium	3000	mg/kg	Composition of Australian meat chicken hatchery waste
Apple	Apple pomace		Inorganics	Sodium	78.4	ppm .d.b	NOSHAN
Orange	Orange peel	Orange	Inorganics	Sodium	<10	ppm .d.b	NOSHAN

Cheese	Whey	Milk	Inorganics	Sodium	7606	ppm .d.b	NOSHAN
Hop	Hops		Inorganics	Sodium	<10	ppm .d.b	NOSHAN
Apple	Apple cake		Inorganics	Sodium	<10	ppm .d.b	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Sodium	<100	ppm .d.b	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Sodium	111.7	ppm .d.b	NOSHAN
Cabbage	Cabbage		Inorganics	Sodium	48035.67	ppm .d.b	NOSHAN
Cheese	Cheese	Hard	Inorganics	Sodium	7087	ppm .d.b	NOSHAN
Cheese	Cheese	Soft	Inorganics	Sodium	394.5	ppm .d.b	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Sodium	122	ppm .d.b	NOSHAN
Grape	Grape pomace		Inorganics	Sodium	<10	ppm .d.b	NOSHAN
Barley	Malted barley germs		Inorganics	Sodium	<100	ppm .d.b	NOSHAN
Mushrooms	Mushrooms		Inorganics	Sodium	1059	ppm .d.b	NOSHAN
Olive	Olive pomace		Inorganics	Sodium	<10	ppm .d.b	NOSHAN
Onion	Onion hulls		Inorganics	Sodium	279.61	ppm .d.b	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Sodium	606	ppm .d.b	NOSHAN
Potato	Potato	Selected	Inorganics	Sodium	95	ppm .d.b	NOSHAN
Potato	Potato skin		Inorganics	Sodium	1054	ppm .d.b	NOSHAN
Rape	Rapeseed press cake		Inorganics	Sodium	<10	ppm .d.b	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Sodium	55274	ppm .d.b	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Inorganics	Sodium	204	ppm .d.b	NOSHAN
Tomatoes	Tomato skin		Inorganics	Sodium	819	ppm .d.b	NOSHAN
Apple	Apple	Whole	Inorganics	Sodium	39.9	ppm .d.b	NOSHAN
Pears	Pear	Whole	Inorganics	Sodium	41.8	ppm .d.b	NOSHAN
Yoghurt	Yoghurt		Inorganics	Sodium	3531	ppm .d.b	NOSHAN
Citrus, unspecified	Citrus pulp, dried		Inorganics	Sodium	1.0	g/kg DM	Citrus by-products as ruminant feeds: A review
Rice	Rice husk	Before soaking pre-treatment	Inorganics	Sodium oxide (Na2O)	0.37	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Rice	Rice husk, dried	Soaked rice husks, dried	Inorganics	Sodium oxide (Na2O)	0.042	% ash	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk		Inorganics	Sodium oxide (Na2O)	0.2	% ash	Combustion behaviour of rice husk in a bubbling fluidised bed
Grape	Char from grape residue	Residue from wine production, pyrolysis in packed bed (280-530°C deg C radial profile)	Inorganics	Sodium oxide (Na2O)	3.3	% ash	ECN Phyllis 2
Olive	Char from olive husks	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Sodium oxide (Na2O)	8.9	% ash	ECN Phyllis 2

Wheat	Char from wheat straw	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Sodium oxide (Na2O)	4.3	% ash	ECN Phyllis 2
Sugar cane	Sugar cane trash	Tops and leaves	Inorganics	Sodium oxide (Na2O)	0.27	% ash	ECN Phyllis 2
Sugar beet	Sugar beet		Inorganics	Sodium oxide (Na2O)	3.1	% ash	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Sodium oxide (Na2O)	1.87	% ash	ECN Phyllis 2
Bean	Bean plant		Inorganics	Sodium oxide (Na2O)	0.69	% ash	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Sodium oxide (Na2O)	0.72	% ash	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Sodium oxide (Na2O)	0.45	% ash	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Sodium oxide (Na2O)	4.36	% ash	ECN Phyllis 2

Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Sodium oxide (Na2O)	4.97	% ash	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Sodium oxide (Na2O)	1.78	% ash	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Sodium oxide (Na2O)	5.51	% ash	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Sodium oxide (Na2O)	1.25	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Sodium oxide (Na2O)	0.84	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Sodium oxide (Na2O)	2.14	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Sodium oxide (Na2O)	1.6	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Sodium oxide (Na2O)	0.49	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Sodium oxide (Na2O)	0.5	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Sodium oxide (Na2O)	0.87	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Sodium oxide (Na2O)	0.98	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash fusion temperatures according to ASTM D-1857	Inorganics	Sodium oxide (Na2O)	5.86	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Sodium oxide (Na2O)	0.2	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Sodium oxide (Na2O)	1.6	% ash	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Sodium oxide (Na2O)	5.08	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Sodium oxide (Na2O)	2.62	% ash	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Sodium oxide (Na2O)	0.1	% ash	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Sodium oxide (Na2O)	4.8	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Sodium oxide (Na2O)	1.3	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Sodium oxide (Na2O)	0	% ash	ECN Phyllis 2
Olive	Olive		Inorganics	Sodium oxide (Na2O)	29.9	% ash	ECN Phyllis 2

Olive	Olive		Inorganics	Sodium oxide (Na2O)	28.17	% ash	ECN Phyllis 2
Olive	Olive	Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Sodium oxide (Na2O)	7.6	% ash	ECN Phyllis 2
Olive	Olive cake		Inorganics	Sodium oxide (Na2O)	1	% ash	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Sodium oxide (Na2O)	26.2	% ash	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Sodium oxide (Na2O)	27.8	% ash	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Inorganics	Sodium oxide (Na2O)	0.47	% ash	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Sodium oxide (Na2O)	2.08	% ash	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Sodium oxide (Na2O)	1.7	% ash	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Sodium oxide (Na2O)	3.94	% ash	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Sodium oxide (Na2O)	1.44	% ash	ECN Phyllis 2
Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Sodium oxide (Na2O)	8.9	% ash	ECN Phyllis 2

Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Sodium oxide (Na2O)	0.05	% ash	ECN Phyllis 2
Olive	Orujillo	Wood matter from pressed oil stone	Inorganics	Sodium oxide (Na2O)	0.4	% ash	ECN Phyllis 2
Coffee	Coffee husk		Inorganics	Sodium oxide (Na2O)	0.4	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Sodium oxide (Na2O)	3.68	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Sodium oxide (Na2O)	4.5	% ash	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Sodium oxide (Na2O)	0.39	% ash	ECN Phyllis 2
Coffee	Coffee husk	Parchment	Inorganics	Sodium oxide (Na2O)	0.5	% ash	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Inorganics	Sodium oxide (Na2O)	1.4	% ash	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Sodium oxide (Na2O)	2	% ash	ECN Phyllis 2

Rice	Rice husk	Ash	Inorganics	Sodium oxide (Na2O)	0.078	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Silica powder	Inorganics	Sodium oxide (Na2O)	0.0128	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Sodium oxide (Na2O)	0.05	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Sodium oxide (Na2O)	0.19	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Sodium oxide (Na2O)	0.06	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Sodium oxide (Na2O)	0.24	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Sodium oxide (Na2O)	0.38	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Sodium oxide (Na2O)	0.04	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Sodium oxide (Na2O)	0.14	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Sodium oxide (Na2O)	0.15	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Sodium oxide (Na2O)	0.66	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Sodium oxide (Na2O)	0.1	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Sodium oxide (Na2O)	0.16	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Sodium oxide (Na2O)	0.52	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the bottom of the combustor	Inorganics	Sodium oxide (Na2O)	0.09	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the cyclones	Inorganics	Sodium oxide (Na2O)	0.18	%	Combustion behaviour of rice husk in a bubbling fluidised bed
Rice	Rice husk	Combustion ashes. Ash from the baghouse	Inorganics	Sodium oxide (Na2O)	0.42	%	Combustion behaviour of rice husk in a bubbling fluidised bed

Sugar beet	Sugar beet		Waste compounds	Softening or spherical temperature	1200	°C	ECN Phyllis 2
Aubergine	Aubergine plant		Waste compounds	Softening or spherical temperature	1650	°C	ECN Phyllis 2
Bean	Bean plant		Waste compounds	Softening or spherical temperature	1650	°C	ECN Phyllis 2
Courgette	Courgette plant		Waste compounds	Softening or spherical temperature	1553	°C	ECN Phyllis 2
Cucumber	Cucumber plant		Waste compounds	Softening or spherical temperature	1650	°C	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Waste compounds	Softening or spherical temperature	1650	°C	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Waste compounds	Softening or spherical temperature	1650	°C	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Waste compounds	Softening or spherical temperature	760	°C	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Waste compounds	Softening or spherical temperature	1450	°C	ECN Phyllis 2

Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Waste compounds	Softening or spherical temperature	1170	°C	ECN Phyllis 2
Potato	Potato	Selected	Undesirable components	Solanine, alpha	19.46	mg/kg	NOSHAN
Potato	Potato skin		Undesirable components	Solanine, alpha	20.58	mg/kg	NOSHAN
Potato	Potato	Mean of 21 different varieties	Undesirable components	Solanine, alpha	45	mg/kg	Glycoalkaloid and calystegine levels in table potato cultivars subjected to wounding, light and heat treatments
Potato	Potato	Heat treatment applied: tubers incubated in thte dark at 34 degrees C for 7d. Mean of 21 varieties	Undesirable components	Solanine, alpha	44	mg/kg	Glycoalkaloid and calystegine levels in table potato cultivars subjected to wounding, light and heat treatments

Potato	Potato	Wounding stimulated by cutting four 5mm thick transversal discs. Mean of 21 varieties	Undesirable components	Solanine, alpha	129	mg/kg	Glycoalkaloid and calystegine levels in table potato cultivars subjected to wounding, light and heat treatments
Potato	Potato	Exposure to light by placing tubers for 8d in constant light at 22 degrees C. Mean of 21 different varieties	Undesirable components	Solanine, alpha	148	mg/kg	Glycoalkaloid and calystegine levels in table potato cultivars subjected to wounding, light and heat treatments
Banana	Banana	Musa paradisiaca, growth stage at harvest: peeling	Waste compounds	Solids (volatile) conversion	45.4	%	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: vegetative stage+root	Waste compounds	Solids (volatile) conversion	71.9	%	Cropgen database

Carrot	Carrot waste		Waste compounds	Solids (volatile) conversion	75	%	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Waste compounds	Solids (volatile) conversion	56.9	%	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Waste compounds	Solids (volatile) conversion	94.8	%	Cropgen database
Rape	Oil seed rape	Brassica napus, growth stage at harvest: reproductive stage (pod filled)	Waste compounds	Solids (volatile) conversion	62	%	Cropgen database
Pineapple	Pineapple waste		Waste compounds	Solids (volatile) conversion	93.2	%	Cropgen database
Rape	Rape	Brassica napus, growth stage: tops	Waste compounds	Solids (volatile) conversion	89.1	%	Cropgen database
Sugar beet	Sugar beet	Beta vulgaris	Waste compounds	Solids (volatile) conversion	92.9	%	Cropgen database

Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Waste compounds	Solids (volatile) conversion	39.5	%	Cropgen database
Wheat	Wheat	Triticum aestivum, growth stage at harvest: straw	Waste compounds	Solids (volatile) conversion	37.45	%	Cropgen database
Wheat	Wheat grain		Waste compounds	Solids (volatile) conversion	25	%	Cropgen database
Cabbage	Cabbage leaves	White. Brassica oleracea var. capitata	Waste compounds	Solids (volatile) conversion	92.5	%	Cropgen database
Wheat	Wheat	Growth stage at harvest: pasty	Waste compounds	Solids (volatile) conversion	0.78	raw gas/volatile solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: milky	Waste compounds	Solids (volatile) conversion	0.76	raw gas/volatile solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: flowering	Waste compounds	Solids (volatile) conversion	0.91	raw gas/volatile solids	Cropgen database

Cheese	Whey	Cheese	Waste compounds	Solids, fixed	6750	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration
Cheese	Whey	Cheese	Waste compounds	Solids, fixed	10	%	Amelioration of lactic acid production from cheese whey using micro-aeration
Cheese	Whey	Cheese	Waste compounds	Solids, fixed	230	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration
Cheese	Whey	Cheese	Waste compounds	Solids, fixed	1	%	Amelioration of lactic acid production from cheese whey using micro-aeration
Abattoir wastes, unspecified	Slaughterhouse wastewater		Waste compounds	Solids, settleable	10	ml/l	Anaerobic treatment of slaughterhouse waste and wastewater

Sugar beet	Pressed beet-pulp		Waste compounds	Solids, solid, volatile	94	% total solids	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters
Sugar by-products, unspecified	Bagasse		Waste compounds	Solids, soluble	0.8	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Waste compounds	Solids, soluble	3.8	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Apple	Apple pomace, dried	Powder	Waste compounds	Solids, soluble, total	57	°B	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Waste compounds	Solids, soluble, total	33	°B	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Waste compounds	Solids, soluble, total	32	°B	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Waste compounds	Solids, soluble, total	30	°B	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder	Waste compounds	Solids, soluble, total	59.35	°B DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Waste compounds	Solids, soluble, total	34.55	°B DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Waste compounds	Solids, soluble, total	33.47	°B DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Waste compounds	Solids, soluble, total	31.14	°B DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Cheese	Whey	Cheese	Waste compounds	Solids, suspended	25160	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration
Sugar by-products, unspecified	Wastewater	1h settled	Waste compounds	Solids, suspended	665	mg/l	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters

Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Solids, suspended	850-6300	mg/l	Waste treatment and by-products: The Science of poultry and meat processing
Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Solids, suspended	2400-9400	mg/l	Waste treatment and by-products: The Science of poultry and meat processing
Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Solids, suspended	2580	mg/l	Waste treatment and by-products: The Science of poultry and meat processing
Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Solids, suspended	285-2660	mg/l	Waste treatment and by-products: The Science of poultry and meat processing

Animal by-products, unspecified	Greaves		Waste compounds	Solids, total	88	%	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments
Animal by-products, unspecified	Rinds		Waste compounds	Solids, total	65	%	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments

Beef	Solid cattle slaughterhouse wastes		Waste compounds	Solids, total	26	%	Anaerobic co-digestion of solid slaughterhouse wastes with agro-residues: Synergistic and antagonistic interactions determined in batch digestion assays
Beef	Paunch		Waste compounds	Solids, total	22.2	%	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Dissolved air flotation sludge		Waste compounds	Solids, total	5.7	%	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Soft offal		Waste compounds	Solids, total	53.9	%	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Mixture of paunch, dissolved air flotation sludge and soft offal at annual production ratios		Waste compounds	Solids, total	33.8	%	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Poultry	Hatchery waste		Waste compounds	Solids, total	53.7	%	Composition of Australian meat chicken hatchery waste
Cheese	Whey	Cheese	Waste compounds	Solids, total	68300	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration
Sugar by-products, unspecified	Wastewater	1h settled	Waste compounds	Solids, total	6062	mg/l	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters

Abattoir wastes, unspecified	Abattoir raw effluent		Waste compounds	Solids, total	5748	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Waste compounds	Solids, total	1001	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Waste compounds	Solids, total	960	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Waste compounds	Solids, total	2071	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Waste compounds	Solids, total	3624	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Waste compounds	Solids, total	1026	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Waste compounds	Solids, total	1792	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Waste compounds	Solids, total	1089	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Waste compounds	Solids, total	2100	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Waste compounds	Solids, total	986	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Waste compounds	Solids, total	140	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Waste compounds	Solids, total	199	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Sugar beet	Pressed beet-pulp		Waste compounds	Solids, total	15	%	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters
Milk	Milk	Holstein Friesian cows, Spain	Waste compounds	Solids, total	11.36	%	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Waste compounds	Solids, total	13.57	%	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Beef	Cattle manure	Slurry	Waste compounds	Solids, total	9.31	%	Co-digestion of source segregated domestic food waste to improve process stability
Food, unspecified	Food leftovers	Domestic food waste (UK)	Waste compounds	Solids, total	23.74	%	Co-digestion of source segregated domestic food waste to improve process stability
Food, unspecified	Food leftovers	Source separated food waste	Waste compounds	Solids, total	23.74	%	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment

Beef	Cattle manure	Slurry	Waste compounds	Solids, total	9.31	%	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment
Food, unspecified	Food leftovers	Domestic food waste (UK)	Waste compounds	Solids, total	23.74	%	Trace element requirements for stable food waste digestion at elevated ammonia concentrations
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Luton, UK	Waste compounds	Solids, total	23.70	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Hackney, UK	Waste compounds	Solids, total	25.74	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Ludlow, UK	Waste compounds	Solids, total	23.74	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Eastleigh, UK	Waste compounds	Solids, total	25.89	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Forssa, Finland	Waste compounds	Solids, total	27.02	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Treviso, Italy	Waste compounds	Solids, total	27.47	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Raw food waste obtained from collection rounds in Lisbon, Portugal	Waste compounds	Solids, total	33.80	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste (to digester) obtained from collection rounds in Lisbon, Portugal	Waste compounds	Solids, total	6.31	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Domestic food waste from Ludlow, UK	Waste compounds	Solids, total	244.7	g/kg	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment

Food, unspecified	Food leftovers	Autoclaved (160C, 6.2 bars) domestic food waste from Ludlow, UK	Waste compounds	Solids, total	205.2	g/kg	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment
Olive	Olive tree pruning	Liquid fraction derived from organosolv pretreatment	Waste compounds	Solids, total dissolved	4.36	%	Biorefining of olive tree (Olea europea) pruning
Cheese	Whey	Cheese	Waste compounds	Solids, volatile	90	%	Amelioration of lactic acid production from cheese whey using micro-aeration
Cheese	Whey	Cheese	Waste compounds	Solids, volatile	99	%	Amelioration of lactic acid production from cheese whey using micro-aeration

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Luton, UK	Waste compounds	Solids, volatile	21.84	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Luton, UK	Waste compounds	Solids, volatile	91.28	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Hackney, UK	Waste compounds	Solids, volatile	23.47	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Hackney, UK	Waste compounds	Solids, volatile	91.17	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Ludlow, UK	Waste compounds	Solids, volatile	21.71	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Ludlow, UK	Waste compounds	Solids, volatile	91.44	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Eastleigh, UK	Waste compounds	Solids, volatile	24.00	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Eastleigh, UK	Waste compounds	Solids, volatile	92.70	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Forssa, Finland	Waste compounds	Solids, volatile	24.91	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Forssa, Finland	Waste compounds	Solids, volatile	92.26	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Treviso, Italy	Waste compounds	Solids, volatile	23.60	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Treviso, Italy	Waste compounds	Solids, volatile	86.60	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Raw food waste obtained from collection rounds in Lisbon, Portugal	Waste compounds	Solids, volatile	27.60	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Raw food waste obtained from collection rounds in Lisbon, Portugal	Waste compounds	Solids, volatile	81.7	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste (to digester) obtained from collection rounds in Lisbon, Portugal	Waste compounds	Solids, volatile	4.93	%	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste (to digester) obtained from collection rounds in Lisbon, Portugal	Waste compounds	Solids, volatile	78.19	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Domestic food waste from Ludlow, UK	Waste compounds	Solids, volatile	229.9	g/kg	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment
Food, unspecified	Food leftovers	Domestic food waste from Ludlow, UK	Waste compounds	Solids, volatile	92.3	% total solids	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment

Food, unspecified	Food leftovers	Autoclaved (160C, 6.2 bars) domestic food waste from Ludlow, UK	Waste compounds	Solids, volatile	189.1	g/kg	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment
Food, unspecified	Food leftovers	Autoclaved (160C, 6.2 bars) domestic food waste from Ludlow, UK	Waste compounds	Solids, volatile	92.1	% total solids	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment
Olive	Olive cake, dried	Dried, two-stage dried	Waste compounds	Soluble fractions	191	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Olive	Olive leaves		Waste compounds	Soluble fractions	276	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive cake, dried	Dried, two-stage dried	Waste compounds	Soluble fractions	131	g/kg CP	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Waste compounds	Soluble fractions	78	g/kg CP	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Beef	Paunch		Waste compounds	Specific methane yield (CH4)	228.8	ml/g volatile solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Dissolved air flotation sludge		Waste compounds	Specific methane yield (CH4)	49.5	ml/g volatile solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Soft offal		Waste compounds	Specific methane yield (CH4)	650.9	ml/g volatile solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Mixture of paunch, dissolved air flotation sludge and soft offal at annual production ratios		Waste compounds	Specific methane yield (CH4)	641.6	ml/g volatile solids	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Waste compounds	Specific surface area (BET)	81	m^2/g	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Waste compounds	Specific surface area (BET)	4	m^2/g	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Waste compounds	Specific surface area (BET)	119	m²/g	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 400/60/0. Combustion temperature: 400°C, 60 minutes, 0% oxygen	Waste compounds	Specific surface area (BET)	5.6	m²/g	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	Specific surface area (BET)	29.4	m²/g	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	Specific surface area (BET)	22.1	m^2/g	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Waste compounds	Specific surface area (BET)	39	m^2/g	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Waste compounds	Specific surface area (BET)	29	m^2/g	ECN Phyllis 2
Wheat	Triticale grain		Waste compounds	Specific viscosity (AFNOR)	4.24	ml/g DM	Feedipedia
Wheat	Wheat grain		Waste compounds	Specific viscosity (AFNOR)	2.85	ml/g DM	Feedipedia
Apple	Apple cake		Undesirable components	Spermidine	6.6	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Undesirable components	Spermidine	121.6	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Spermidine	124.6	mg/kg	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Spermidine	4.3	mg/kg	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Spermidine	2.8	mg/kg	NOSHAN
Cheese	Cheese	Soft and hard	Undesirable components	Spermidine	12.2	mg/kg	NOSHAN

Cucumber	Cucumber	Sour	Undesirable components	Spermidine	102.7	mg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Spermidine	34.6	mg/kg	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	Spermidine	30.6	mg/kg	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Spermidine	<1	mg/kg	NOSHAN
Apple	Apple cake		Undesirable components	Spermine	12.1	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Undesirable components	Spermine	134.1	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Spermine	40.6	mg/kg	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Spermine	2.1	mg/kg	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Spermine	3.9	mg/kg	NOSHAN
Cheese	Cheese	Soft and hard	Undesirable components	Spermine	4.4	mg/kg	NOSHAN
Cucumber	Cucumber	Sour	Undesirable components	Spermine	32.4	mg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Spermine	9.4	mg/kg	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	Spermine	47.2	mg/kg	NOSHAN

Yoghurt	Yoghurt		Undesirable components	Spermine	<1	mg/kg	NOSHAN
Carrot	Carrot		Proximates	Stachyose	nd	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Undesirable components	Standard plate count	7.13	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Undesirable components	Standard plate count	7.71	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Undesirable components	Standard plate count	7.73	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Undesirable components	Staphylococcus	4.61	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Undesirable components	Staphylococcus	0.84	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Undesirable components	Staphylococcus	1.5	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Starch	0.0	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Potato	Potato	Solanum tuberosum L.	Proximates	Starch	65-75	g/100g	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Green	Proximates	Starch	15	g/100g	Utilization of fruit and vegetable wastes, FAO
Plantain	Plantain banana peel	Green	Proximates	Starch	40	g/100g	Utilization of fruit and vegetable wastes, FAO

Wheat	Wheat bran		Proximates	Starch	20	g/100g	Comparison of two wheat bran extracts in the sheet extrusion process
Potato	Potato fibres	Pressed	Proximates	Starch	20-40	g/100g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Starch	<1	g/100g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Buffer insoluble solids		Proximates	Starch	3	g/100g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Supernatant from pressed potato fibre		Proximates	Starch	<1	g/100g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Starch	28	g/100g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Starch	<1	g/100g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Starch	33	g/100g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Orange	Orange peel	Orange	Proximates	Starch	73.42	g/kg	NOSHAN
Hop	Hops		Proximates	Starch	12.2	g/kg	NOSHAN

Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Starch	42	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Fish, unspecified	Fish meal	Low temperature dried	Proximates	Starch	3	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed

Wheat	Wheat gluten		Proximates	Starch	70	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed
Soy	Soy protein concentrate		Proximates	Starch	9	g/kg	Assessment of the effects of fish meal, wheat gluten, soy protein concentrate and feed moisture on extruder system parameters and the technical quality of fish feed

Grape	Grape pomace		Proximates	Starch	24.48	g/kg	NOSHAN
Barley	Malted barley germs		Proximates	Starch	169.06	g/kg	NOSHAN
Barley	Malted barley germs		Proximates	Starch	50.99	g/kg	NOSHAN
Mushrooms	Mushrooms		Proximates	Starch	55.74	g/kg	NOSHAN
Olive	Olive pomace		Proximates	Starch	30.57	g/kg	NOSHAN
Onion	Onion hulls		Proximates	Starch	0	g/kg	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Starch	54.99	g/kg	NOSHAN
Potato	Potato	Selected	Proximates	Starch	623.12	g/kg	NOSHAN
Potato	Potato skin		Proximates	Starch	567.46	g/kg	NOSHAN
Rape	Rapeseed press cake		Proximates	Starch	61.22	g/kg	NOSHAN
Apple	Apple	Whole	Proximates	Starch	0	g/kg	NOSHAN
Pears	Pear	Whole	Proximates	Starch	0	g/kg	NOSHAN
Yoghurt	Yoghurt		Proximates	Starch	10.8	g/kg	NOSHAN
Canola	Juncea canola meal		Proximates	Starch	16.6	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal

Sugar beet	Sugar beet molasses	From pulp	Proximates	Starch	3	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Starch	15	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Starch	1	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Soy	Soybean meal	Soya bean	Proximates	Starch	59	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed cake		Proximates	Starch	0	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rye	Seed residue		Proximates	Starch	147	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Starch	88	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Starch	60	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Fruit and vegetables, unspecified	Pectin residue		Proximates	Starch	4	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Starch	249	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Starch	5	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Wheat	Wheat		Proximates	Starch	673	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Starch	594	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Citrus, unspecified	Citrus pulp, dried		Proximates	Starch	23	g/kg DM	Citrus by-products as ruminant feeds: A review

Distillers grain	Distillers grain	Corn, with solubles	Proximates	Starch	60	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Starch	40	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Starch	24	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Citrus, unspecified	Citrus pulp		Proximates	Starch	1	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Potato	Potato		Proximates	Starch	57.5	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Wheat	Wheat middlings		Proximates	Starch	21	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Wheat	Wheat	Ground	Proximates	Starch	64.6	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Beef	Rumen microbes	Mixed. Isolated from a continuous culture fermentation	Proximates	Starch	8.8-7.6	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Sugar beet	Sugar beet pulp		Proximates	Starch	0	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Distillers grain	Distillers, corn	Ethanol	Proximates	Starch	6.6	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Distillers grain	Distillers, corn	Whiskey	Proximates	Starch	4.2	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Distillers grain	Distillers, corn	FL 4/99	Proximates	Starch	2	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Distillers grain	Distillers, corn	Fl 5/99	Proximates	Starch	3.1	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Olive	Olive tree pruning	Biomass	Proximates	Starch	1.4	% DM	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass
Nuts, unspecified	Nut hulls	Almond, WH	Proximates	Starch	1.4	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Cotton	Cottonseed	Whole	Proximates	Starch	1	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Cotton	Cottonseed	Whole, FL 5/99	Proximates	Starch	0.8	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Cotton	Cottonseed hulls		Proximates	Starch	<1	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Potato	Potato mash		Proximates	Starch	73.5	% DM	ECN Phyllis 2
Cacao/cocoa	Cacao shell parts, shoots		Proximates	Starch	15	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Starch	0	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Starch	0	% DM	ECN Phyllis 2
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Starch	5	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Starch	9	g/kg DM	Nutritive value of plantain and chicory for pigs
Distillers grain	Distillers grain	Wet corn mash solids	Proximates	Starch	90	g/kg DM	Distillers grains as an energy source and effect of drying on protein availability

Distillers grain	Distillers corn stillage	Thin. Liquid from corn mash. Distilled, alcohol removed	Proximates	Starch	220	g/kg DM	Distillers grains as an energy source and effect of drying on protein availability
Potato	Potato peel	A review of different publications	Proximates	Starch	323-521	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Potato	Potato pulp	A review of different publications	Proximates	Starch	177-249	g/kg DM	A review of the utility of potato by-products as a feed resource for smallholder pig production
Wheat	Wheat forage	Fresh	Proximates	Starch, enzymatic	7.8	% DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Starch, enzymatic	1.8	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Starch, enzymatic	5.7	% DM	Feedipedia
Banana	Banana fruits, ensiled	Mature, ensiled	Proximates	Starch, enzymatic	6.4	% DM	Feedipedia

Cassava	Cassava starch		Proximates	Starch, enzymatic	94.3	% DM	Feedipedia
Wheat	Triticale grain		Proximates	Starch, polarimetry	67.6	% DM	Feedipedia
Wheat	Wheat straw		Proximates	Starch, polarimetry	1	% DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Starch, polarimetry	3.2	% DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Starch, polarimetry	0.9	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Starch, polarimetry	7.8	% DM	Feedipedia
Rice	Rice grain	Brown	Proximates	Starch, polarimetry	86.9	% DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Starch, polarimetry	14.7	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Starch, polarimetry	9.3	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Starch, polarimetry	8.2	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Starch, polarimetry	12.3	% DM	Feedipedia

Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Starch, polarimetry	4.9	% DM	Feedipedia
Distillery by-products, unspecified	Thin stillage		Proximates	Starch, polarimetry	25.1	% DM	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Starch, polarimetry	42	% DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Starch, polarimetry	28.8	% DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Starch, polarimetry	22.4	% DM	Feedipedia
Rice	Rice bran	Fibre >20%	Proximates	Starch, polarimetry	14.7	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Starch, polarimetry	32.2	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Starch, polarimetry	26.4	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Starch, polarimetry	14.3	% DM	Feedipedia
Rice	Rice hull		Proximates	Starch, polarimetry	5.3	% DM	Feedipedia
Rice	Rough rice, paddy rice		Proximates	Starch, polarimetry	64.2	% DM	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Starch, polarimetry	74.5	% DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Starch, polarimetry	72.8	% DM	Feedipedia

Sorghum	Sorghum grain	Low tannin	Proximates	Starch, polarimetry	73.4	% DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Starch, polarimetry	75	% DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Starch, polarimetry	74.9	% DM	Feedipedia
Wheat	Wheat starch		Proximates	Starch, polarimetry	86.3	% DM	Feedipedia
Wheat	Wheat bran		Proximates	Starch, polarimetry	23.1	% DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Starch, polarimetry	4.2	% DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Starch, polarimetry	16.1	% DM	Feedipedia
Wheat	Wheat germs		Proximates	Starch, polarimetry	19.8	% DM	Feedipedia
Wheat	Wheat grain		Proximates	Starch, polarimetry	69.1	% DM	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Starch, polarimetry	63.3	% DM	Feedipedia
Wheat	Wheat screenings		Proximates	Starch, polarimetry	61.7	% DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Starch, polarimetry	7.7	% DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Starch, polarimetry	10.3	% DM	Feedipedia

Cotton	Cottonseed hulls		Proximates	Starch, polarimetry	4.2	% DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Starch, polarimetry	3.3	% DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Starch, polarimetry	2.1	% DM	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Starch, polarimetry	4.8	% DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Starch, polarimetry	2.5	% DM	Feedipedia
Flax/linseed	Linseeds		Proximates	Starch, polarimetry	5.2	% DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Starch, polarimetry	22.1	% DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Starch, polarimetry	23.5	% DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Starch, polarimetry	35.7	% DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Starch, polarimetry	36.8	% DM	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Starch, polarimetry	27.7	% DM	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Starch, polarimetry	13	% DM	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Starch, polarimetry	1.5	% DM	Feedipedia

Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Starch, polarimetry	1.5	% DM	Feedipedia
Rape	Rapeseed hulls		Proximates	Starch, polarimetry	6	% DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Starch, polarimetry	3.7	% DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Starch, polarimetry	1.8	% DM	Feedipedia
Sesame	Sesame seeds	Whole	Proximates	Starch, polarimetry	4.6	% DM	Feedipedia
Soy	Soybean hulls		Proximates	Starch, polarimetry	5.2	% DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Starch, polarimetry	6.4	% DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Starch, polarimetry	5.1	% DM	Feedipedia
Soy	Soybeans	Toasted	Proximates	Starch, polarimetry	6.1	% DM	Feedipedia
Soy	Soybeans	Extruded	Proximates	Starch, polarimetry	6.3	% DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Starch, polarimetry	13.9	% DM	Feedipedia

Sunflower	Sunflower forage	Silage	Proximates	Starch, polarimetry	9	% DM	Feedipedia
Sunflower	Sunflower hulls		Proximates	Starch, polarimetry	3.4	% DM	Feedipedia
Sunflower	Sunflower screenings		Proximates	Starch, polarimetry	2.7	% DM	Feedipedia
Sunflower	Sunflower seeds		Proximates	Starch, polarimetry	1.3	% DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Starch, polarimetry	8.1	% DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Starch, polarimetry	10.2	% DM	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Starch, polarimetry	72.3	% DM	Feedipedia
Banana	Banana fruits, dried	Immature, dehydrated	Proximates	Starch, polarimetry	73.9	% DM	Feedipedia
Banana	Banana fruits	Immature, without peel, fresh	Proximates	Starch, polarimetry	80.2	% DM	Feedipedia
Banana	Banana fruits, dried	Immature, without peel, dehydrated	Proximates	Starch, polarimetry	80.2	% DM	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Starch, polarimetry	0	% DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Starch, polarimetry	7.5	% DM	Feedipedia
Coffee	Instant coffee by product		Proximates	Starch, polarimetry	0.3	% DM	Feedipedia

Grape	Grape pomace, dried	Dehydrated	Proximates	Starch, polarimetry	0.6	% DM	Feedipedia
Grape	Grape pomace	Silage	Proximates	Starch, polarimetry	0.3	% DM	Feedipedia
Grape	Grape seeds		Proximates	Starch, polarimetry	2.1	% DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Starch, polarimetry	2.2	% DM	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Starch, polarimetry	60.2	% DM	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Starch, polarimetry	0.5	% DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Starch, polarimetry	4.3	% DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Starch, polarimetry	1.8	% DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Starch, polarimetry	69.3	% DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Starch, polarimetry	73.5	% DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Starch, polarimetry	0.5	% DM	Feedipedia
Hop	Hops	Spent, dehydrated. Humulus lupulus	Proximates	Starch, polarimetry	2.4	% DM	Feedipedia

Beef	Cattle manure	Fresh	Proximates	Starch, polarimetry	1.2	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Starch, polarimetry	10.9	% DM	Feedipedia
Bakery	Bakery and viennoiserie by products		Proximates	Starch, polarimetry	57	% DM	Feedipedia
Corn	Maize starch		Proximates	Starch, polarimetry	95	% DM	Feedipedia
Pea	Pea starch		Proximates	Starch, polarimetry	95.4	% DM	Feedipedia
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Phytosterols	Steryl ferulates	3.42	mg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Phytosterols	Stigmasterol	1.1	mg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Apple	Apple pomace		Inorganics	Strontium	3.28	ppm d.b.	NOSHAN

Orange	Orange peel	Orange	Inorganics	Strontium	50.05	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Strontium	1.97	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Strontium	12.36	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Strontium	4.05	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Strontium	0.4	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Strontium	12.74	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Strontium	15.71	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Strontium	6.91	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Strontium	5.87	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Strontium	2.62	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Strontium	80.84	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Strontium	17.24	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Strontium	<0.01	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Strontium	23.62	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Strontium	61.2	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Strontium	156.78	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Strontium	1.66	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Strontium	3.68	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Strontium	36.58	ppm d.b.	NOSHAN

Cabbage	Cabbage	Sour	Inorganics	Strontium	23.96	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Strontium	73.49	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Strontium	3.88	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Strontium	1.49	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Strontium	2.04	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Strontium	3.25	ppm d.b.	NOSHAN
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Strontium	460	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Strontium	26	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Strontium	153.7	mg/kg DM	ECN Phyllis 2

Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Strontium	197	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Strontium	28	mg/kg DM	ECN Phyllis 2
Olive	Olive cake		Inorganics	Strontium	45	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Strontium	9.3	mg/kg DM	ECN Phyllis 2
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Sucrose	1.8	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Sugar beet	Sugar beet molasses	From pulp	Proximates	Sucrose	182	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Sucrose	46	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Sucrose	801	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Canola	Canola meal	Average of analysed values	Proximates	Sucrose	61	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Carrot	Carrot		Proximates	Sucrose	332	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Pineapple	Pineapple waste	Raw	Proximates	Sucrose	28-53	% DM	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Pulper stage of tomato processing for paste	Proximates	Sucrose	2.93	g/kg	Chemical characterization of tomato pomace

Tomatoes	Tomato pomace	Finisher stage of tomato processing for paste	Proximates	Sucrose	0.00	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	Before turbostage stage of tomato processing for paste	Proximates	Sucrose	1.29	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	After turbostage stage of tomato processing for paste	Proximates	Sucrose	1.05	g/kg	Chemical characterization of tomato pomace
Sugar beet	Sugar beet molasses	From pulp	Proximates	Sugar	210	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Sugar	56	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Sugar	803	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Soy	Soybean meal	Soya bean	Proximates	Sugar	110	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver
Rape	Rapeseed cake		Proximates	Sugar	105	g/kg DM	Apparent digestibility of high-fat rapeseed press cake in growing pigs and effects on feed intake, growth and weight of thyroid and liver

Rye	Seed residue		Proximates	Sugar	25	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Sugar	15	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Sugar	2	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Fruit and vegetables, unspecified	Pectin residue		Proximates	Sugar	1	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Sugar	0.3	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Sugar	38	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Wheat	Wheat		Proximates	Sugar	22	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Sugar	19	g/kg DM	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Citrus, unspecified	Citrus pulp, dried		Proximates	Sugar	241	g/kg DM	Citrus by-products as ruminant feeds: A review

Distillers grain	Distillers grain	Corn, with solubles	Proximates	Sugar	90	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Sugar	98	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Sugar	126	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillery by-products, unspecified	Distillers solubles	Citrus molasses	Proximates	Sugar	43	g/kg DM	Citrus by-products as ruminant feeds: A review
Animal by-products, unspecified	Greaves		Proximates	Sugar	154	g/kg wet waste	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments

Animal by-products, unspecified	Rinds		Proximates	Sugar	163	g/kg	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments
Apple	Apple pomace, dried	Powder	Proximates	Sugar	49.98	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Proximates	Sugar	11	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Proximates	Sugar	10.87	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Proximates	Sugar	10.79	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Citrus, unspecified	Citrus pulp		Proximates	Sugar	26.5	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Potato	Potato		Proximates	Sugar	4.8	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Wheat	Wheat middlings		Proximates	Sugar	5.4	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Wheat	Wheat	Ground	Proximates	Sugar	1.8	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Sugar beet	Sugar beet pulp		Proximates	Sugar	12.8	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Sugar	24.9	% DM	Utilization of fruit and vegetable wastes, FAO
Distillers grain	Distillers, corn	Ethanol	Proximates	Sugar	14.5	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Distillers grain	Distillers, corn	Whiskey	Proximates	Sugar	6.2	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Distillers grain	Distillers, corn	FL 4/99	Proximates	Sugar	11	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis

Distillers grain	Distillers, corn	Fl 5/99	Proximates	Sugar	5.4	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Nuts, unspecified	Nut hulls	Almond, WH	Proximates	Sugar	32.8	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Cotton	Cottonseed	Whole, FL 5/99	Proximates	Sugar	5.9	% DM	Neutral Detergent Soluble Carbohydrates Nutritional Relevance and Analysis
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Sugar	18.6	% DM	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Sugar	20.6	% DM	Utilization of fruit and vegetable wastes, FAO

Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Sugar	53.6	% DM	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Sugar	13.8	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Proximates	Sugar	24.5	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Sugar	19.3	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Sugar	64.3	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Cull carrots	Proximates	Sugar	60	% DM	Vegetable waste as animal feed paper
Sugar cane	Sugar cane forage	Whole plant, fresh	Proximates	Sugar	43.9	% DM	Feedipedia
Sugar cane	Sugar cane stalks	Fresh	Proximates	Sugar	65.9	% DM	Feedipedia
Wheat	Triticale grain		Proximates	Sugar	3.7	% DM	Feedipedia

Wheat	Wheat straw		Proximates	Sugar	1.2	% DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Proximates	Sugar	0.5	% DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Sugar	4.3	% DM	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Proximates	Sugar	2.3	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Proximates	Sugar	1	% DM	Feedipedia
Rice	Rice grain	Brown	Proximates	Sugar	0.4	% DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Sugar	10.9	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Sugar	1.7	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Sugar	1.6	% DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Sugar	0.6	% DM	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Sugar	3	% DM	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Sugar	3.8	% DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Sugar	2.8	% DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Sugar	2.8	% DM	Feedipedia

Rice	Rice bran	Fibre >20%	Proximates	Sugar	1	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Sugar	2.7	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Sugar	3	% DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Sugar	1.6	% DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Proximates	Sugar	1.7	% DM	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Sugar	1.4	% DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Sugar	1.1	% DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Sugar	1	% DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Sugar	0.8	% DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Sugar	1.1	% DM	Feedipedia
Wheat	Wheat starch		Proximates	Sugar	1.4	% DM	Feedipedia
Wheat	Wheat bran		Proximates	Sugar	7.2	% DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Sugar	2.9	% DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Sugar	6	% DM	Feedipedia
Wheat	Wheat germs		Proximates	Sugar	17.5	% DM	Feedipedia
Wheat	Wheat grain		Proximates	Sugar	3.2	% DM	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Sugar	3.1	% DM	Feedipedia

Argan	Argan leaves, dried	Dried, Argania spinosa	Proximates	Sugar	2.3	% DM	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Proximates	Sugar	15.3	% DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Proximates	Sugar	1	% DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Proximates	Sugar	0.9	% DM	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Sugar	11.4	% DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Sugar	5.2	% DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Sugar	4.6	% DM	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Sugar	5	% DM	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Sugar	3.2	% DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Proximates	Sugar	0.5	% DM	Feedipedia
Flax/linseed	Linseed meal		Proximates	Sugar	4.3	% DM	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Sugar	4.3	% DM	Feedipedia
Flax/linseed	Linseeds		Proximates	Sugar	2.9	% DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Sugar	0.7	% DM	Feedipedia

Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Sugar	0.9	% DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Sugar	5.1	% DM	Feedipedia
Corn	Maize germ meal	Protein <20%, oil <5%	Proximates	Sugar	7.2	% DM	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Sugar	7.8	% DM	Feedipedia
Corn	Maize germ	Oil >30%	Proximates	Sugar	0.4	% DM	Feedipedia
Olive	Olive oil cake	Exhausted, with stones	Proximates	Sugar	10.6	% DM	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Sugar	3	% DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Sugar	12.4	% DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Sugar	9	% DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Sugar	10.2	% DM	Feedipedia
Peanuts	Peanuts	Without shells	Proximates	Sugar	7.8	% DM	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Sugar	5.1	% DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Sugar	3.4	% DM	Feedipedia

Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Sugar	9.1	% DM	Feedipedia
Rape	Rapeseed hulls		Proximates	Sugar	2.8	% DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Sugar	10.4	% DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Sugar	9.8	% DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Sugar	10.5	% DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Sugar	5.5	% DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Sugar	4.3	% DM	Feedipedia
Soy	Soybean hulls		Proximates	Sugar	5.2	% DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Sugar	9.4	% DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Sugar	10.6	% DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Sugar	9.3	% DM	Feedipedia

Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Sugar	8.7	% DM	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Sugar	8.5	% DM	Feedipedia
Soy	Soybeans	Toasted	Proximates	Sugar	8.8	% DM	Feedipedia
Soy	Soybeans	Extruded	Proximates	Sugar	8.5	% DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Proximates	Sugar	7.5	% DM	Feedipedia
Sunflower	Sunflower hulls		Proximates	Sugar	1.5	% DM	Feedipedia
Sunflower	Sunflower screenings		Proximates	Sugar	1.5	% DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Sugar	6.1	% DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Sugar	5.9	% DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Sugar	5.9	% DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Sugar	4.4	% DM	Feedipedia

Sunflower	Sunflower seeds		Proximates	Sugar	2.7	% DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Sugar	5.5	% DM	Feedipedia
Apple	Apple pomace	Fresh	Proximates	Sugar	6.2	% DM	Feedipedia
Banana	Banana fruits	Mature, fresh	Proximates	Sugar	63.2	% DM	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Sugar	1.8	% DM	Feedipedia
Banana	Banana fruits	Immature, without peel, fresh	Proximates	Sugar	2	% DM	Feedipedia
Plantain	Plantain banana peel	Mature, fresh	Proximates	Sugar	31.6	% DM	Feedipedia
Plantain	Plantain banana peel	Immature, fresh	Proximates	Sugar	17.3	% DM	Feedipedia
Citrus, unspecified	Citrus	Fruits, fresh	Proximates	Sugar	48.7	% DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Sugar	24.5	% DM	Feedipedia
Coffee	Instant coffee by product		Proximates	Sugar	0.4	% DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Sugar	84.5	% DM	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Sugar	0.8	% DM	Feedipedia
Grape	Grape pomace	Fresh	Proximates	Sugar	18.5	% DM	Feedipedia

Sugar beet	Sugar beet molasses		Proximates	Sugar	63.2	% DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Proximates	Sugar	39.6	% DM	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Sugar	6.6	% DM	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Sugar	7.6	% DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Sugar	10.1	% DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Sugar	5.1	% DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Sugar	7.9	% DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Sugar	9.1	% DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Sugar	7	% DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Sugar	7.6	% DM	Feedipedia
Sugar cane	Sugar cane juice		Proximates	Sugar	73.1	% DM	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Sugar	64.1	% DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Sugar	2.9	% DM	Feedipedia

Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Sugar	4.3	% DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Sugar	10.1	% DM	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Sugar	37	% DM	Feedipedia
Poultry	Feather meal		Proximates	Sugar	0.3	% DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Sugar	1.9	% DM	Feedipedia
Apple	Apple		Proximates	Sugar	0.514	g equiv. glucose/g volatile solids	Cropgen database
Banana	Banana		Proximates	Sugar	0.45	g equiv. glucose/g volatile solids	Cropgen database
Carrot	Carrot		Proximates	Sugar	0.472	g equiv. glucose/g volatile solids	Cropgen database
Orange	Orange		Proximates	Sugar	0.468	g equiv. glucose/g volatile solids	Cropgen database
Potato	Potato		Proximates	Sugar	0.609	g equiv. glucose/g volatile solids	Cropgen database

Lemon	Lemon peel	Fresh	Proximates	Sugar	191	g/kg DM	Citrus by-products as ruminant feeds: A review
Banana	Banana peel	Musa acuminata	Proximates	Sugar, free	30	%	Utilization of fruit and vegetable wastes, FAO
Pears	Pear pomace		Proximates	Sugar, free	85.2	g/kg DM	Comparative study of alkaline extraction process of hemicelluloses from pear pomace
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Sugar, netural	7.08	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Sugar, netural	4.85	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Sugar, netural	12.25	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Sugar, netural	14.59	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Sugar, netural	13.39	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Sugar, netural	0.46	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Sugar, netural	0.42	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Sugar, netural	0.54	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Sugar, netural	0.78	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Sugar, netural	1	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Sugar, non-reducing	47.8	% DM basis	Utilization of fruit and vegetable wastes, FAO

Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Sugar, non-reducing	23.4	% DM basis	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Sugar, non-reducing	15	% DM basis	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Sugar, non-reducing	15.6	% DM basis	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Sugar, non-reducing	47.8	% DM basis	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Sugar, non-reducing	7.9	% DM basis	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Proximates	Sugar, non-reducing	17.7	% DM basis	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Sugar, non-reducing	15.8	% DM basis	Utilization of fruit and vegetable wastes, FAO

Carrot	Carrot pulp	Daucus carota	Proximates	Sugar, non-reducing	58.1	% DM basis	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta	Proximates	Sugar, reducing	5.8	% DM basis	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Proximates	Sugar, reducing	1.5	% DM basis	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Proximates	Sugar, reducing	3.6	% DM basis	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Proximates	Sugar, reducing	5	% DM basis	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Sugar, reducing	5.8	% DM basis	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Proximates	Sugar, reducing	5.9	% DM basis	Utilization of fruit and vegetable wastes, FAO

Melon	Muskmelon, peels	Cucumis melo	Proximates	Sugar, reducing	6.8	% DM basis	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Proximates	Sugar, reducing	3.5	% DM basis	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Proximates	Sugar, reducing	6.2	% DM basis	Utilization of fruit and vegetable wastes, FAO
Canola	Canola meal	Average of analysed values	Proximates	Sugar, simple	2.9	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Tomatoes	Tomato	Cull	Proximates	Sugar, soluble	36-38	%	Utilization of fruit and vegetable wastes, FAO

Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Sugar, soluble	55.77	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Sugar, soluble	77.53	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Sugar, soluble	1.71	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Proximates	Sugar, soluble	1.34	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Sugar, soluble	1.38	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Sunflower	Sunflower oil cake		Proximates	Sugar, soluble	2	% DM	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake
Pineapple	Pineapple waste	Raw	Proximates	Sugar, soluble	40-75	% DM	Utilization of fruit and vegetable wastes, FAO

Tomatoes	Tomato pomace	Pulper stage of tomato processing for paste. Espressed as g glucose	Proximates	Sugar, soluble	26.22	g/kg	Chemical characterizatio n of tomato pomace
Tomatoes	Tomato pomace	Finisher stage of tomato processing for paste. Espressed as g glucose	Proximates	Sugar, soluble	30.25	g/kg	Chemical characterizatio n of tomato pomace
Tomatoes	Tomato pomace	Before turbostage stage of tomato processing for paste. Espressed as g glucose	Proximates	Sugar, soluble	35.35	g/kg	Chemical characterizatio n of tomato pomace
Tomatoes	Tomato pomace	After turbostage stage of tomato processing for paste. Espressed as g glucose	Proximates	Sugar, soluble	28.42	g/kg	Chemical characterizatio n of tomato pomace

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Sugar, total	9.7	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Apple	Apple pomace, dried	Powder	Proximates	Sugar, total	48	g/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Proximates	Sugar, total	10.6	g/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Proximates	Sugar, total	10.4	g/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Proximates	Sugar, total	10.4	g/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Olive	Isolated lignin from olive tree pruning	By organosolv pretreatment	Proximates	Sugar, total	2.94	g/100g	Biorefining of olive tree (Olea europea) pruning
Citrus, unspecified	Citrus molasses		Proximates	Sugar, total	60-65	g/100g	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Red grapes	Proximates	Sugar, total	15	g/100g	Utilization of fruit and vegetable wastes, FAO

Carrot	Carrot pomace		Proximates	Sugar, total	64.3	g/100g	Utilization of fruit and vegetable wastes, FAO
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; end pressure MPa: 0.5	Proximates	Sugar, total	18.2	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; O2 pressure MPa: 0.6; end pressure MPa: 1.0	Proximates	Sugar, total	19.6	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; end pressure MPa: 0.7	Proximates	Sugar, total	17.5	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; O2 pressure MPa: 0.6; end pressure MPa: 1.7	Proximates	Sugar, total	18.7	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; end pressure MPa: 1.1	Proximates	Sugar, total	16.6	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; O2 pressure MPa: 0.6; end pressure MPa: 1.9	Proximates	Sugar, total	20.4	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; end pressure MPa: 1.4	Proximates	Sugar, total	17.8	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; O2 pressure MPa: 0.6; end pressure MPa: 2.2	Proximates	Sugar, total	12.6	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Bakery	Bakery and viennoiserie by products		Proximates	Sugar, total	14.3	% DM	Feedipedia

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Proximates	Sugar, total	16.2	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Proximates	Sugar, total	8.98	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Proximates	Sugar, total	6.72	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Proximates	Sugar, total	15.1	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Tomatoes	Tomato pomace	Pulper stage of tomato processing for paste. Expressed g glucose	Proximates	Sugar, total	64.91	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	Finisher stage of tomato processing for paste. Expressed g glucose	Proximates	Sugar, total	48.53	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	Before turbopress stage of tomato processing for paste. Expressed g glucose	Proximates	Sugar, total	57.16	g/kg	Chemical characterization of tomato pomace
Tomatoes	Tomato pomace	After turbopress stage of tomato processing for paste. Expressed g glucose	Proximates	Sugar, total	63.45	g/kg	Chemical characterization of tomato pomace

Lemon	Sweet lemon pulp	Citrus limetta, without skin	Proximates	Sugar, water soluble	54	% DM	Utilization of fruit and vegetable wastes, FAO
Hop	Hops		Undesirable components	Sulfitres.Clostridien	0	cfu/g	NOSHAN
Barley	Malted barley germs		Undesirable components	Sulfitres.Clostridien	<10	cfu/g	NOSHAN
Rape	Rapeseed press cake		Undesirable components	Sulfitres.Clostridien	0	cfu/g	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Undesirable components	Sulfitres.Clostridien	0	cfu/g	NOSHAN
Rice	Rice husk, dried	Powder	Inorganics	Sulfur trioxide (SO3)	0.11	% mass fraction	Development of photoluminescent glass derived from rice husk
Sugar cane	Sugar cane trash	Tops and leaves	Inorganics	Sulfur trioxide (SO3)	7.31	% ash	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Sulfur trioxide (SO3)	16	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Sulfur trioxide (SO3)	0.8	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Sulfur trioxide (SO3)	2	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Sulfur trioxide (SO3)	1.6	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Sulfur trioxide (SO3)	0.34	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Sulfur trioxide (SO3)	1.44	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash fusion temperatures according to ASTM D-1857	Inorganics	Sulfur trioxide (SO3)	17.48	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Sulfur trioxide (SO3)	1.2	% ash	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Sulfur trioxide (SO3)	0.88	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Sulfur trioxide (SO3)	8	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Sulfur trioxide (SO3)	2.77	% ash	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Sulfur trioxide (SO3)	2.72	% ash	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Sulfur trioxide (SO3)	0.01	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Sulfur trioxide (SO3)	1.1	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Sulfur trioxide (SO3)	4.24	% ash	ECN Phyllis 2
Olive	Olive		Inorganics	Sulfur trioxide (SO3)	2.4	% ash	ECN Phyllis 2

Olive	Olive		Inorganics	Sulfur trioxide (SO3)	2	% ash	ECN Phyllis 2
Olive	Olive	Ash type: grinding, 60 mesh, 14 hours at 575 degC. Ash fusion temperatures according to ASTM D-1857	Inorganics	Sulfur trioxide (SO3)	17.2	% ash	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Sulfur trioxide (SO3)	0.6	% ash	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Sulfur trioxide (SO3)	0.56	% ash	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Sulfur trioxide (SO3)	3.5	% ash	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Sulfur trioxide (SO3)	0.68	% ash	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Sulfur trioxide (SO3)	0.2	% ash	ECN Phyllis 2

Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Sulfur trioxide (SO3)	4.97	% ash	ECN Phyllis 2
Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Sulfur trioxide (SO3)	3.29	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Sulfur trioxide (SO3)	3.79	% ash	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Sulfur trioxide (SO3)	2.07	% ash	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Sulfur trioxide (SO3)	14.3	% ash	ECN Phyllis 2
Abattoir wastes, unspecified	Abattoir raw effluent		Inorganics	Sulphate	1009	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Inorganics	Sulphate	680	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Inorganics	Sulphate	640	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Inorganics	Sulphate	730	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Inorganics	Sulphate	380	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Inorganics	Sulphate	560	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Inorganics	Sulphate	325	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Inorganics	Sulphate	189	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Inorganics	Sulphate	692	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Inorganics	Sulphate	160	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Inorganics	Sulphate	119	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Inorganics	Sulphate	205	mg/l	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Inorganics	Sulphur	0.33	%	Wet brewers' grains for beef cattle
Olive	Olive husk		Inorganics	Sulphur	0.17	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Inorganics	Sulphur	0.1	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura

Olive	Olive husk		Inorganics	Sulphur	0.3	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Inorganics	Sulphur	0.05	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Grape	Grape waste		Inorganics	Sulphur	0.14	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Grape	Char from grape residue	Residue from wine production, pyrolysis in packed bed (280-530°C deg C radial profile)	Inorganics	Sulphur	0.11	%	ECN Phyllis 2

Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Sulphur	0.1	%	ECN Phyllis 2
Olive	Char from olive husks	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Sulphur	0.03	%	ECN Phyllis 2
Rice	Rice straw char	Char from pyrolysis at 490°C	Inorganics	Sulphur	0.32	%	ECN Phyllis 2
Straw	Straw		Inorganics	Sulphur	0.09	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Sulphur	0.41	%	ECN Phyllis 2
Aubergine	Aubergine plant		Inorganics	Sulphur	0.02	%	ECN Phyllis 2
Bean	Bean plant		Inorganics	Sulphur	0.02	%	ECN Phyllis 2

Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Inorganics	Sulphur	0.45	%	ECN Phyllis 2
Olive	Olive stones		Inorganics	Sulphur	0.1	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive stones	Carbonization solid product	Inorganics	Sulphur	0.6	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive stones	Vacuum carbonization solid product	Inorganics	Sulphur	0.6	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp		Inorganics	Sulphur	0.3	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp	Carbonization solid product	Inorganics	Sulphur	0.8	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents

Olive	Olive pulp	Vacuum carbonization solid product	Inorganics	Sulphur	0.9	%, maf	Conversion of olive wastes to volatiles and carbon adsorbents
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Sulphur	0.14	% DM	Utilization of fruit and vegetable wastes, FAO
Grape	Grape marc		Inorganics	Sulphur	0.12	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Inorganics	Sulphur	0.09	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape peels		Inorganics	Sulphur	0.12	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape seeds		Inorganics	Sulphur	0.08	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Inorganics	Sulphur	0.09	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape meal	Extraction meal	Inorganics	Sulphur	0.09	% DM	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Tomatoes	Tomato peel		Inorganics	Sulphur	0.07	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Inorganics	Sulphur	0.2	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato cake		Inorganics	Sulphur	0.28	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato meal		Inorganics	Sulphur	0.3	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Inorganics	Sulphur	0.16	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato residues	Wet	Inorganics	Sulphur	0.12	% DM	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Nuts, unspecified	Nut hulls	Almond	Inorganics	Sulphur	0.07	% DM	2012FeedComp
Apple	Apple pomace	Wet	Inorganics	Sulphur	0.04	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Inorganics	Sulphur	0.22	% DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Inorganics	Sulphur	0.22	% DM	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Inorganics	Sulphur	0.42	% DM	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Inorganics	Sulphur	0.42	% DM	2012FeedComp
Sugar beet	Sugar beet tops		Inorganics	Sulphur	0.45	% DM	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Inorganics	Sulphur	0.57	% DM	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Inorganics	Sulphur	0.7	% DM	2012FeedComp

Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Inorganics	Sulphur	2.5	% DM	2012FeedComp
Bread	Bread by product		Inorganics	Sulphur	0.15	% DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Inorganics	Sulphur	0.32	% DM	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Inorganics	Sulphur	0.41	% DM	2012FeedComp
Butter	Buttermilk, dried		Inorganics	Sulphur	0.09	% DM	2012FeedComp
Bread	Calcium carbonate		Inorganics	Sulphur	0	% DM	2012FeedComp
Carrot	Carrot	Roots, fresh	Inorganics	Sulphur	0.17	% DM	2012FeedComp
Beef	Cattle manure, dried	Dried	Inorganics	Sulphur	1.78	% DM	2012FeedComp
Coconut	Coconut meal	Mech. Ext.	Inorganics	Sulphur	0.04	% DM	2012FeedComp
Cotton	Cottonseed hulls		Inorganics	Sulphur	0.05	% DM	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Inorganics	Sulphur	0.44	% DM	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Inorganics	Sulphur	0.42	% DM	2012FeedComp

Crab	Crab waste meal		Inorganics	Sulphur	0.27	% DM	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Inorganics	Sulphur	1.26	% DM	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Inorganics	Sulphur	1.18	% DM	2012FeedComp
Distillers grain	Distillers grain	Barley	Inorganics	Sulphur	0.43	% DM	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Inorganics	Sulphur	0.7	% DM	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Inorganics	Sulphur	0.7	% DM	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Inorganics	Sulphur	0.8	% DM	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Inorganics	Sulphur	1.1	% DM	2012FeedComp
Distillers grain	Distillers corn stillage		Inorganics	Sulphur	0.6	% DM	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Inorganics	Sulphur	0.5	% DM	2012FeedComp
Fish, unspecified	Fish meal		Inorganics	Sulphur	0.8	% DM	2012FeedComp
Hop	Hop vine silage		Inorganics	Sulphur	0.22	% DM	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Inorganics	Sulphur	0.47	% DM	2012FeedComp

Flax/linseed	Linseed meal	Mech.Ext	Inorganics	Sulphur	0.46	% DM	2012FeedComp
Poultry	Meat meal	Swine/poultry	Inorganics	Sulphur	0.48	% DM	2012FeedComp
Sugar beet	Sugar beet molasses		Inorganics	Sulphur	0.6	% DM	2012FeedComp
Sugar cane	Sugar cane molasses		Inorganics	Sulphur	0.68	% DM	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Inorganics	Sulphur	0.93	% DM	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Inorganics	Sulphur	0.3	% DM	2012FeedComp
Potato	Potato vine silage		Inorganics	Sulphur	0.37	% DM	2012FeedComp
Potato	Potato	Cull	Inorganics	Sulphur	0.09	% DM	2012FeedComp
Potato	Potato waste	Wet	Inorganics	Sulphur	0.11	% DM	2012FeedComp
Potato	Potato waste, dried	Dried	Inorganics	Sulphur	0.11	% DM	2012FeedComp
Poultry	Poultry by product meal		Inorganics	Sulphur	0.56	% DM	2012FeedComp
Poultry	Poultry manure, dried	Dried	Inorganics	Sulphur	0.2	% DM	2012FeedComp
Rice	Rice straw		Inorganics	Sulphur	0.11	% DM	2012FeedComp

Rice	Rice straw	Ammoniated	Inorganics	Sulphur	0.11	% DM	2012FeedComp
Rice	Rice grain		Inorganics	Sulphur	0.05	% DM	2012FeedComp
Rice	Rice polishings		Inorganics	Sulphur	0.19	% DM	2012FeedComp
Rice	Rice bran		Inorganics	Sulphur	0.19	% DM	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Inorganics	Sulphur	0.23	% DM	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Inorganics	Sulphur	0.22	% DM	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Inorganics	Sulphur	0.33	% DM	2012FeedComp
Sunflower	Sunflower meal	With hulls	Inorganics	Sulphur	0.3	% DM	2012FeedComp
Sunflower	Sunflower seed hulls		Inorganics	Sulphur	0.19	% DM	2012FeedComp
Sugar cane	Sugar cane bagasse		Inorganics	Sulphur	0.1	% DM	2012FeedComp
Wheat	Wheat	Fresh, pasture	Inorganics	Sulphur	0.22	% DM	2012FeedComp
Wheat	Wheat hay		Inorganics	Sulphur	0.19	% DM	2012FeedComp
Wheat	Wheat silage		Inorganics	Sulphur	0.21	% DM	2012FeedComp
Wheat	Wheat straw		Inorganics	Sulphur	0.17	% DM	2012FeedComp

Wheat	Wheat straw	Ammoniated	Inorganics	Sulphur	0.16	% DM	2012FeedComp
Wheat	Wheat grain		Inorganics	Sulphur	0.15	% DM	2012FeedComp
Wheat	Wheat grain	Hard	Inorganics	Sulphur	0.16	% DM	2012FeedComp
Wheat	Wheat grain	Soft	Inorganics	Sulphur	0.15	% DM	2012FeedComp
Wheat	Wheat grain	Steam flaked	Inorganics	Sulphur	0.15	% DM	2012FeedComp
Wheat	Wheat grain	Sprouted	Inorganics	Sulphur	0.17	% DM	2012FeedComp
Wheat	Wheat bran		Inorganics	Sulphur	0.24	% DM	2012FeedComp
Wheat	Wheat middlings		Inorganics	Sulphur	0.2	% DM	2012FeedComp
Wheat	Wheat mill run		Inorganics	Sulphur	0.22	% DM	2012FeedComp
Wheat	Wheat shorts		Inorganics	Sulphur	0.2	% DM	2012FeedComp
Cheese	Whey, dried	Dried	Inorganics	Sulphur	0.92	% DM	2012FeedComp
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Inorganics	Sulphur	0.56	% DM	Utilization of fruit and vegetable wastes, FAO

Cabbage	Cabbage leaves	Brassica oleracea C.	Inorganics	Sulphur	0.68	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Daucus carota	Inorganics	Sulphur	0.17	% DM	Utilization of fruit and vegetable wastes, FAO
Potato	Potato	Solanum tuberosum L.	Inorganics	Sulphur	0.09	% DM	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Inorganics	Sulphur	0.14	% DM	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Inorganics	Sulphur	0.07	% DM	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Sulphur	0.3	% DM	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Sulphur	0.15	% DM	Utilization of fruit and vegetable wastes, FAO

Banana	Banana peel	Musa acuminata	Inorganics	Sulphur	0.27	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Inorganics	Sulphur	0.29	% DM	Utilization of fruit and vegetable wastes, FAO
Melon	Watermelon, peels	Citrullus lanatus	Inorganics	Sulphur	0.18	% DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Inorganics	Sulphur	0.22	% DM	Utilization of fruit and vegetable wastes, FAO
Bakery	Bakery product, dried	Dried	Inorganics	Sulphur	0.15	% DM	2012FeedComp
Canola	Canola meal	Solv. Ext.	Inorganics	Sulphur	0.78	% DM	2012FeedComp
Cotton	Cottonseed	Whole	Inorganics	Sulphur	0.24	% DM	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Inorganics	Sulphur	0.24	% DM	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Inorganics	Sulphur	0.24	% DM	2012FeedComp
Milk	Milk, dried	Dry, skim	Inorganics	Sulphur	0.34	% DM	2012FeedComp

Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Sulphur	0.5	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Sulphur	0.7	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Sulphur	0.62	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Sulphur	0.75	% DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Inorganics	Sulphur	0.6	% DM	Composted slaughterhouse waste as organic fertilizer

Rice	Rice husk	Variety: Lemont LG	Inorganics	Sulphur	0.03	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: ROK 14	Inorganics	Sulphur	0.02	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: CP4	Inorganics	Sulphur	0.01	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Rice	Rice husk	Variety: Pa Potho	Inorganics	Sulphur	0.02	% DM	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis

Cheese	Whey	Cheese	Inorganics	Sulphur	154	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration
Grape	Grape seeds	White, Italian	Inorganics	Sulphur	1.3	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Red, Italian	Inorganics	Sulphur	1.4	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Californian	Inorganics	Sulphur	1.5	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Not ensiled	Inorganics	Sulphur	1.4	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Ensiled for 45 days	Inorganics	Sulphur	1.4	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	White, Italian	Inorganics	Sulphur	1.7	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Red, Italian	Inorganics	Sulphur	1.7	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Californian	Inorganics	Sulphur	1.8	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Not ensiled	Inorganics	Sulphur	1.7	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Ensiled for 45 days	Inorganics	Sulphur	1.7	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Citrus, unspecified	Citrus pulp silage		Inorganics	Sulphur	0.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Sulphur	1.0	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Sulphur	0.8	g/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus molasses		Inorganics	Sulphur	2.3	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Sulphur	0.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Sulphur	1.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Inorganics	Sulphur	0.06	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Sulphur	0.7	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Inorganics	Sulphur	8082	mg/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Inorganics	Sulphur	8068	mg/kg DM	Feedipedia

Poultry	Hatchery waste		Inorganics	Sulphur	3590	mg/kg	Composition of Australian meat chicken hatchery waste
Poultry	Pyrolysis char from skimmings poultry processing	600°C pyrolysis	Inorganics	Sulphur	0.06	%	ECN Phyllis 2
Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Sulphur	1.01	%	ECN Phyllis 2
Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Sulphur	0.05	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 400/60/0. Combustion temperature: 400°C, 60 minutes, 0% oxygen	Inorganics	Sulphur	0.26	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Sulphur	0.43	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Sulphur	0.4	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Sulphur	0.47	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Sulphur	0.27	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Sulphur	0.49	%	ECN Phyllis 2
Wheat	Char from wheat straw	Char from fluid bed gasifier	Inorganics	Sulphur	0.07	%	ECN Phyllis 2
Wheat	Char from wheat straw	Pyrolysis in packed bed (280-530°C radial profile)	Inorganics	Sulphur	0.1	%	ECN Phyllis 2
Sugar cane	Sugar cane trash	Ground pellets	Inorganics	Sulphur	0.06	%	ECN Phyllis 2
Sugar beet	Sugar beet		Inorganics	Sulphur	0.13	%	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Sulphur	0.01	%	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Sulphur	0.03	%	ECN Phyllis 2

Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Sulphur	0.01	%	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Sulphur	0.08	%	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Sulphur	0.05	%	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Sulphur	0.01	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Sulphur	0.04	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Inorganics	Sulphur	0.01	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Sulphur	0.03	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Inorganics	Sulphur	0.02	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Inorganics	Sulphur	0.01	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Sulphur	0.06	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Inorganics	Sulphur	0.01	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Sulphur	0.03	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Sulphur	0.05	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Sulphur	0.06	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Sulphur	0.07	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Sulphur	0.04	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Sulphur	0.04	%	ECN Phyllis 2

Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Sulphur	0.17	%	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Sulphur	0.05	%	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Sulphur	0.3	%	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Sulphur	0.19	%	ECN Phyllis 2
Cacao/cocoa	Cacao shells	Report JOU2-CT93-0397; data from K. Lassing, E. Olsson and L. Waldheim, TPS	Inorganics	Sulphur	0.16	%	ECN Phyllis 2
Cacao/cocoa	Cacao hulls		Inorganics	Sulphur	0.12	%	ECN Phyllis 2
Coconut	Coconut shell	Coconuts shells from Madal, Mozambique	Inorganics	Sulphur		%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Sulphur	0	%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Sulphur	0.09	%	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Sulphur	0.02	%	ECN Phyllis 2
Coconut	Coconut fibre dust	Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Inorganics	Sulphur	0.16	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 1, samples from Trabzon, Turkey	Inorganics	Sulphur	0.75	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 2, samples from Trabzon, Turkey	Inorganics	Sulphur	0.7	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 3, samples from Trabzon, Turkey	Inorganics	Sulphur	0.39	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 4, samples from Trabzon, Turkey	Inorganics	Sulphur	0.49	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Sulphur	0.04	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Sulphur	0	%	ECN Phyllis 2
Olive	Olive		Inorganics	Sulphur	0.03	%	ECN Phyllis 2
Olive	Olive		Inorganics	Sulphur	0.09	%	ECN Phyllis 2
Olive	Olive		Inorganics	Sulphur	0.14	%	ECN Phyllis 2

Olive	Olive cake		Inorganics	Sulphur	0.17	%	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Sulphur	0.05	%	ECN Phyllis 2
Olive	Olive husk	Ash type: 815°C	Inorganics	Sulphur	0.1	%	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Sulphur	0.05	%	ECN Phyllis 2
Olive	Olive pits		Inorganics	Sulphur	0.02	%	ECN Phyllis 2
Olive	Olive pits		Inorganics	Sulphur	0.01	%	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Sulphur	0.07	%	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Inorganics	Sulphur	0.06	%	ECN Phyllis 2
Olive	Olive residue		Inorganics	Sulphur	0.1	%	ECN Phyllis 2

Olive	Olive residue	Sample lot size: 60kg. Country: Spain	Inorganics	Sulphur	0.13	%	ECN Phyllis 2
Olive	Olive residue		Inorganics	Sulphur	0.12	%	ECN Phyllis 2
Olive	Olive waste	Country: Spain	Inorganics	Sulphur	0.14	%	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Inorganics	Sulphur	0.12	%	ECN Phyllis 2
Olive	Olive husk	Exhausted	Inorganics	Sulphur	0.04	%	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Inorganics	Sulphur	0.26	%	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Inorganics	Sulphur	0.2	%	ECN Phyllis 2
Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Sulphur	0.28	%	ECN Phyllis 2

Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Sulphur	0.28	%	ECN Phyllis 2
Olive	Orujillo	Wood matter from pressed oil stone	Inorganics	Sulphur	0.09	%	ECN Phyllis 2
Cherry	Cherry pits		Inorganics	Sulphur	0.28	%	ECN Phyllis 2
Peach	Peach pits		Inorganics	Sulphur	0.05	%	ECN Phyllis 2
Peach	Peach pits		Inorganics	Sulphur	0.02	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Sulphur	0.2	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Sulphur	0.2	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Inorganics	Sulphur	0.01	%	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Sulphur	0.05	%	ECN Phyllis 2

Apricot	Apricot stones	Apricot stones as waste product of canning industry, Bulgaria	Inorganics	Sulphur	0.09	%	ECN Phyllis 2
Babassu	Babassu husks		Inorganics	Sulphur	0.04	%	ECN Phyllis 2
Coffee	Coffee husk	Parchment	Inorganics	Sulphur	0.53	%	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Inorganics	Sulphur	0.09	%	ECN Phyllis 2
Grape	Grape seeds		Inorganics	Sulphur	0.18	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Kukui. Charcoal yield 58.6% at 1 MPa, fixed-C yield 41.4%	Inorganics	Sulphur	0.03	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Inorganics	Sulphur	0.04	%	ECN Phyllis 2
Millet	Millet husk		Inorganics	Sulphur	0.1	%	ECN Phyllis 2
Mustard	Mustard husk		Inorganics	Sulphur	0.18	%	ECN Phyllis 2
Apple	Apple pomace		Inorganics	Sulphur	0.02	% d.b.	NOSHAN
Apple	Apple pomace, dried	Dried	Inorganics	Sulphur	0.04	% d.b.	2012FeedComp

Citrus, unspecified	Citrus pulp, dried		Inorganics	Sulphur	0.08	% DM	2012FeedComp
Orange	Orange pulp, dried		Inorganics	Sulphur	0.05	% DM	2012FeedComp
Orange	Orange peel	Orange	Inorganics	Sulphur	0.2	% d.b.	NOSHAN
Citrus, unspecified	Citrus molasses		Inorganics	Sulphur	0.23	% DM	2012FeedComp
Rice	Rice hull		Inorganics	Sulphur	0.08	% d.b.	2012FeedComp
Rice	Rice mill byproduct		Inorganics	Sulphur	0.3	% d.b.	2012FeedComp
Cheese	Whey	Milk	Inorganics	Sulphur	0.42	% d.b.	NOSHAN
Poultry	Feather meal	Hydrolyzed	Inorganics	Sulphur	1.82	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Sulphur	0.3	% d.b.	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Sulphur	0.31	% d.b.	Utilization of fruit and vegetable wastes, FAO
Barley	Barley grain screenings		Inorganics	Sulphur	0.15	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Inorganics	Sulphur	0.32	% d.b.	2012FeedComp
Hop	Hops		Inorganics	Sulphur	0.48	% d.b.	NOSHAN

Distillers grain	Distillers grain	Wet	Inorganics	Sulphur	0.6	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Inorganics	Sulphur	0.5	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Inorganics	Sulphur	0.7	% d.b.	2012FeedComp
Rice	Rice husk	Before soaking pre-treatment	Inorganics	Sulphur	0.06	% d.b.	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk, dried	Soaked rice husks, dried	Inorganics	Sulphur	0.02	% d.b.	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Sugar by-products, unspecified	Bagasse		Inorganics	Sulphur	0.1	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Inorganics	Sulphur	0.1	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Apple	Apple cake		Inorganics	Sulphur	0.99	% d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Sulphur	1.78	% d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Sulphur	0.18	% d.b.	NOSHAN

Cabbage	Cabbage		Inorganics	Sulphur	2.31	% d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Sulphur	0.15	% d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Sulphur	0.16	% d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Sulphur	0.44	% d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Sulphur	0.39	% d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Sulphur	1.98	% d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Sulphur	0.23	% d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Sulphur	0.58	% d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Sulphur	0.19	% d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Sulphur	0.28	% d.b.	NOSHAN
Potato	Potato skin		Inorganics	Sulphur	0.25	% d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Sulphur	0.73	% d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Sulphur	0.16	% d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Sulphur	0.32	% d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Sulphur	0.46	% d.b.	NOSHAN
Rice	Rice husk		Inorganics	Sulphur	0.04	% d.b.	Combustion behaviour of rice husk in a bubbling fluidised bed

Babassu	Babassu cake		Inorganics	Sulphur	<0.3	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Canola	Canola cake		Inorganics	Sulphur	0.6	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Castor	Castor seed cake		Inorganics	Sulphur	0.6	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes

Sunflower	Sunflower cake		Inorganics	Sulphur	<0.3	% m/m	Characterization of babassu, canola, castor seed and sunflower residual cakes for use as raw materials for fermentation processes
Rice	Rice husk	Raw	Inorganics	Sulphur	0.5	% dry ash free basis	Development of photoluminescent glass derived from rice husk
Apple	Apple pomace		Inorganics	Sulphur	186	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Sulphur	1996	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Sulphur	4181	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Sulphur	4818	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Sulphur	1576	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Sulphur	34074.07	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Sulphur	1844	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Sulphur	38892.85	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Sulphur	1463	ppm d.b.	NOSHAN

Cheese	Cheese	Soft	Inorganics	Sulphur	1615	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Sulphur	4377	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Sulphur	3851	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Sulphur	32002.07	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Sulphur	20685	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Sulphur	2284	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Sulphur	5821.72	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Sulphur	1894	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Sulphur	2825	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Sulphur	2489	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Sulphur	7330	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Sulphur	1557	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Sulphur	3202	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Sulphur	4594	ppm d.b.	NOSHAN
Beef	Cattle manure	Slurry	Inorganics	Sulphur	0.31	% total solids	Co-digestion of source segregated domestic food waste to improve process stability

Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Sulphur	0.15	% total solids	Co-digestion of source segregated domestic food waste to improve process stability
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Luton, UK	Inorganics	Sulphur	0.21	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Hackney, UK	Inorganics	Sulphur	0.23	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Ludlow, UK	Inorganics	Sulphur	0.15	% total solids	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Inorganics	Sulphur	1958.44	g/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Inorganics	Sulphur	0.49	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Inorganics	Sulphur	0.992	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rape	Rape straw	490 fully ripe rape straw samples collected in China	Inorganics	Sulphur	0.49	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Inorganics	Sulphur	0.42	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Sugar beet	Sugar beet molasses	From pulp	Waste compounds	Swelling	8.3	ml/g DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet pulp		Waste compounds	Swelling	13	ml/g DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Waste compounds	Swelling	7.1	ml/g DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Grape	Grape pomace, dried	Air dried	Flavonols	Syringetin-3-glucoside	194	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Flavonols	Syringetin-3-glucoside	168	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Flavonols	Syringetin-3-glucoside	200	ppm	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Skin and seeds, white grape	Tannins	Tannins	15.4	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants

Grape	Grape pomace	Skin and seeds, red grape	Tannins	Tannins	20.2	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape stalks		Tannins	Tannins	15.9	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Rice	Rice straw		Tannins	Tannins	0.1	g/kg DM	Feedipedia
Wheat	Wheat straw		Tannins	Tannins	2.5	g/kg DM	Feedipedia
Palm	Oil palm fronds	Fresh	Tannins	Tannins	30.9	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Tannins	Tannins	3.4	g/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Tannins	Tannins	2.4	g/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Tannins	Tannins	0.5	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains, dried	Sorghum, dried	Tannins	Tannins	4.3	g/kg DM	Feedipedia

Sorghum	Malted sorghum sprouts		Tannins	Tannins	0	g/kg DM	Feedipedia
Sorghum	Sorghum gluten feed		Tannins	Tannins	0	g/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Tannins	Tannins	1.7	g/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Tannins	Tannins	13.9	g/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Tannins	Tannins	0.5	g/kg DM	Feedipedia
Sorghum	Sorghum grain	Red varieties	Tannins	Tannins	1	g/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Tannins	Tannins	0.8	g/kg DM	Feedipedia
Wheat	Wheat bran		Tannins	Tannins	1.3	g/kg DM	Feedipedia
Wheat	Wheat grain		Tannins	Tannins	0.3	g/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Tannins	Tannins	14.3	g/kg DM	Feedipedia
Nuts, unspecified	Nut bagasse	Cashew, dried	Tannins	Tannins	18	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa hulls		Tannins	Tannins	11.8	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa oil meal		Tannins	Tannins	16.4	g/kg DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Tannins	Tannins	1.7	g/kg DM	Feedipedia
Cotton	Cottonseed hulls		Tannins	Tannins	51.5	g/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Tannins	Tannins	5.1	g/kg DM	Feedipedia
Grape	Grape seeds		Tannins	Tannins	73.5	g/kg DM	Feedipedia

Grape	Grape seed oil meal	Oil <5%	Tannins	Tannins	42.8	g/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Tannins	Tannins	43	g/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Tannins	Tannins	4.5	g/kg DM	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Tannins	Tannins	0.1	g/kg DM	Feedipedia
Palm	Palm press fibre	High oil	Tannins	Tannins	0.2	g/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, dry	Tannins	Tannins	26.8	g/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Tannins	Tannins	1.3	g/kg DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Tannins	Tannins	184.9	g/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Tannins	Tannins	1.8	g/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Tannins	Tannins	5	g/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Tannins	Tannins	10.8	g/kg DM	Feedipedia

Rape	Rapeseed	Low erucic, low glucosinolates	Tannins	Tannins	7.2	g/kg DM	Feedipedia
Soy	Soybean hay		Tannins	Tannins	2	g/kg DM	Feedipedia
Soy	Soybean hulls		Tannins	Tannins	2.6	g/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Tannins	Tannins	6.9	g/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Tannins	Tannins	3.6	g/kg DM	Feedipedia
Soy	Soybean meal	High oil (expeller)	Tannins	Tannins	0.8	g/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Tannins	Tannins	8.5	g/kg DM	Feedipedia
Soy	Soybeans	Toasted	Tannins	Tannins	6.4	g/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Tannins	Tannins	14	g/kg DM	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Tannins	Tannins	0	g/kg DM	Feedipedia
Nuts, unspecified	Nut bagasse, dried	Cashew, dried	Tannins	Tannins	18	g/kg DM	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Tannins	Tannins	9.2	g/kg DM	Feedipedia

Grape	Grape pomace	Fresh	Tannins	Tannins	35.4	g/kg DM	Feedipedia
Grape	Grape pomace	Silage	Tannins	Tannins	36	g/kg DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Tannins	Tannins	6.2	g/kg DM	Feedipedia
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Waste compounds	Tannins, bound condensed	8.53	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Waste compounds	Tannins, bound condensed	6.04	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Waste compounds	Tannins, bound condensed	16.14	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Waste compounds	Tannins, bound condensed	16.26	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Waste compounds	Tannins, bound condensed	19.89	% DM	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape marc	Grape marc from Gonzlez-Byass	Tannins	Tannins, condensed	90.5	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape marc	Grape marc from Movialsa	Tannins	Tannins, condensed	202.6	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape vine shoot		Tannins	Tannins, condensed	56.5	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	White	Tannins	Tannins, condensed	94.9	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	Red	Tannins	Tannins, condensed	180.3	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Sherry	Tannins	Tannins, condensed	17.9	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc and lees		Tannins	Tannins, condensed	107.1	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape pomace	Deseeded, without stalk. Area of production: Alsace. Red and white grapes (Vitis vinifera)	Tannins	Tannins, condensed	43.45	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Aquitaine. Red and white grapes (Vitis vinifera)	Tannins	Tannins, condensed	51.64	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Beaujolais. Red and white grapes (Vitis vinifera)	Tannins	Tannins, condensed	36.56	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Bourgogne. Red and white grapes (Vitis vinifera)	Tannins	Tannins, condensed	31.94	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Champagne. Red and white grapes (Vitis vinifera)	Tannins	Tannins, condensed	21.56	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Languedoc. Red and white grapes (Vitis vinifera)	Tannins	Tannins, condensed	26.53	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Val de Loire. Red and white grapes (Vitis vinifera)	Tannins	Tannins, condensed	33.91	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Provence. Red and white grapes (Vitis vinifera)	Tannins	Tannins, condensed	29.85	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape marc	Grape marc from Gonzlez-Byass	Waste compounds	Tannins, condensed, fibre-bound	18.9	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape marc	Grape marc from Movialsa	Waste compounds	Tannins, condensed, fibre-bound	34.3	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape vine shoot		Waste compounds	Tannins, condensed, fibre-bound	1.25	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	White	Waste compounds	Tannins, condensed, fibre-bound	30.4	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	Red	Waste compounds	Tannins, condensed, fibre-bound	35.1	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Sherry	Waste compounds	Tannins, condensed, fibre-bound	5.23	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc and lees		Waste compounds	Tannins, condensed, fibre-bound	26.1	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape marc	Grape marc from Gonzlez-Byass	Waste compounds	Tannins, free, condensed	16.1	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc	Grape marc from Movialsa	Waste compounds	Tannins, free, condensed	37.7	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape vine shoot		Waste compounds	Tannins, free, condensed	45.8	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	White	Waste compounds	Tannins, free, condensed	45.1	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Red	Waste compounds	Tannins, free, condensed	98.3	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Sherry	Waste compounds	Tannins, free, condensed	3.35	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape marc and lees		Waste compounds	Tannins, free, condensed	28.3	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc	Grape marc from Gonzlez-Byass	Waste compounds	Tannins, protein-bound, condensed	55.5	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc	Grape marc from Movialsa	Waste compounds	Tannins, protein-bound, condensed	130.6	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Grape	Grape vine shoot		Waste compounds	Tannins, protein-bound, condensed	9.45	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	White	Waste compounds	Tannins, protein-bound, condensed	19.4	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Wine by-products, unspecified	Lees	Red	Waste compounds	Tannins, protein-bound, condensed	46.9	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants

Wine by-products, unspecified	Lees	Sherry	Waste compounds	Tannins, protein-bound, condensed	9.29	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Grape	Grape marc and lees		Waste compounds	Tannins, protein-bound, condensed	52.7	g/kg DM	By-products from viticulture and the wine industry, potential as sources of nutrients for ruminants
Olive	Olive cake, dried	Dried, two-stage dried	Tannins	Tannins, total condensed	13.8	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Olive	Olive leaves		Tannins	Tannins, total condensed	8.3	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Rice	Rice straw		Tannins	Tannins, total condensed	0	g/kg DM	Feedipedia
Wheat	Wheat straw		Tannins	Tannins, total condensed	0.2	g/kg DM	Feedipedia
Palm	Oil palm fronds	Fresh	Tannins	Tannins, total condensed	0.3	g/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains, dried	Dehydrated	Tannins	Tannins, total condensed	1.4	g/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Tannins	Tannins, total condensed	28.6	g/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Tannins	Tannins, total condensed	55.7	g/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Tannins	Tannins, total condensed	0.5	g/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Tannins	Tannins, total condensed	0	g/kg DM	Feedipedia
Wheat	Wheat bran		Tannins	Tannins, total condensed	0	g/kg DM	Feedipedia

Cotton	Cottonseed meal	High fibre, low oil	Tannins	Tannins, total condensed	4.1	g/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Tannins	Tannins, total condensed	1.8	g/kg DM	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Tannins	Tannins, total condensed	0.4	g/kg DM	Feedipedia
Soy	Soybeans	Extruded	Tannins	Tannins, total condensed	0.8	g/kg DM	Feedipedia
Grape	Grape pomace	Fresh	Tannins	Tannins, total condensed	74.9	g/kg DM	Feedipedia
Grape	Grape pomace	Silage	Tannins	Tannins, total condensed	8.1	g/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil <5%	Tannins	Tannins, total condensed	42.8	g/kg DM	Feedipedia
Olive	Olive cake, dried	Dried, two-stage dried	Tannins	Tannins, total extractable	9.78	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Olive	Olive leaves		Tannins	Tannins, total extractable	1	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive cake, dried	Dried, two-stage dried	Tannins	Tannins, total extractable condensed	0.81	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Tannins	Tannins, total extractable condensed	0.75	g/kg DM	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Grape	Grape pomace	Red grapes	Organic acids	Tartarate	0.05-0.08	%	Utilization of fruit and vegetable wastes, FAO

Wine by-products, unspecified	Lees	Yeast	Organic acids	Tartarate	0.1-0.15	%	Utilization of fruit and vegetable wastes, FAO
Lemon	Lemon peel	Selinunte	Waste compounds	Teipinene	96.52	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Akragas	Waste compounds	Teipinene	95.45	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femminello S	Waste compounds	Teipinene	102.53	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femm. Continella m 84	Waste compounds	Teipinene	92.18	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Siracusano 2KR	Waste compounds	Teipinene	132.13	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm, Cerza	Waste compounds	Teipinene	140.65	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Iniasel 95	Waste compounds	Teipinene	122.23	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Fetnm. Fior d'Arancio m 79	Waste compounds	Teipinene	148.19	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Scandurca	Waste compounds	Teipinene	117.12	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Sfusato Amalfitano	Waste compounds	Teipinene	176.62	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Kamahna	Waste compounds	Teipinene	116.26	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Segesta	Waste compounds	Teipinene	158.26	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Femm. Siracusano m 296	Waste compounds	Teipinene	137.41	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Siracusano m 296	Waste compounds	Teipinene	134.79	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Ovale di Sorrento	Waste compounds	Teipinene	171.23	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars

Lemon	Lemon peel	Ericc	Waste compounds	Teipinene	180.46	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femm. Dosaco	Waste compounds	Teipinene	177.04	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Lemon	Lemon peel	Femminello Adamo	Waste compounds	Teipinene	188.79	mg/100g	Essential oils content and antioxidant properties of peel ethanol extract in 18 lemon cultivars
Cacao/cocoa	Cacao shells		Inorganics	Tellurium	1.1	mg/kg DM	ECN Phyllis 2

Abattoir wastes, unspecified	Abattoir raw effluent		Waste compounds	Temperature	24.12	°C	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Waste compounds	Temperature	23	°C	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Waste compounds	Temperature	25	°C	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Waste compounds	Temperature	0.27	°C	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Waste compounds	Temperature	24	°C	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Waste compounds	Temperature	26	°C	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Waste compounds	Temperature	24	°C	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Waste compounds	Temperature	24	°C	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Waste compounds	Temperature	23	°C	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Waste compounds	Temperature	23	°C	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Waste compounds	Temperature	26	°C	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Waste compounds	Temperature	22	°C	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Slaughterhouse wastewater		Waste compounds	Temperature	20-35	°C	Anaerobic treatment of slaughterhouse waste and wastewater
Banana	Banana		Waste compounds	Tensile strength	700-800	MPa	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sugar cane	Sugar cane bagasse		Waste compounds	Tensile strength	222	MPa	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Orange	Orange peel	Orange	Waste compounds	Terpineol, alpha	4.72	% in 0.6ml/100g	NOSHAN
Apple	Apple pomace		Inorganics	Thallium	<0.01	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Thallium	0.12	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Thallium	0.09	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Thallium	0.12	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Thallium	0.12	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Thallium	<0.01	ppm d.b.	NOSHAN

Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Thallium	<0.01	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Thallium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Thallium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Thallium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Thallium	0.11	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Thallium	0.12	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Thallium	<0.01	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Thallium	<0.1	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Thallium	0.12	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Thallium	0.14	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Thallium	0.14	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Thallium	0.13	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Thallium	0.13	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Thallium	0.32	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Thallium	<0.01	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Thallium	0.14	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Thallium	<0.1	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Thallium	<0.1	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Thallium	<0.1	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Thallium	0.12	ppm d.b.	NOSHAN

Orange	Orange peel	Orange	Undesirable components	Thiabendazol	0.29	mg/kg	NOSHAN
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Thiamin	0.05	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Citrus, unspecified	Citrus meal, dried		Vitamins	Thiamine	1.4	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Vitamins	Thiamine	1.6	mg/kg DM	Citrus by-products as ruminant feeds: A review
Lemon	Lemon peel	Fresh	Vitamins	Thiamine	3.2	mg/kg DM	Citrus by-products as ruminant feeds: A review
Apple	Apple pomace		Proximates	Threonine	1.55	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Threonine	4.05	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Threonine	6.43	mg/g dry matter	NOSHAN

Hop	Hops		Proximates	Threonine	4.76	mg/g dry matter	NOSHAN
Canola	Canola meal		Proximates	Threonine	14.8	mg/g dry matter	A comparative study on amino acid availability of moist heated canla meal for poultry vs. ruminants
Apple	Apple cake		Proximates	Threonine	0.89	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Threonine	15.56	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Threonine	9.34	mg/g dry matter	NOSHAN
Cabbage	Cabbage		Proximates	Threonine	2.38	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Threonine	14.74	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Threonine	11.88	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Threonine	3.47	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Threonine	3.91	mg/g dry matter	NOSHAN

Barley	Malted barley germs		Proximates	Threonine	8.68	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Threonine	10.56	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Threonine	11.66	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Threonine	2.28	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Threonine	1.71	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Threonine	1.1	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Threonine	2.06	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Threonine	2.08	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Threonine	12.11	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Threonine	1.78	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Threonine	4.69	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Threonine	0.75	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Threonine	0.54	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Threonine	0.94	mg/g dry matter	NOSHAN

Yoghurt	Yoghurt		Proximates	Threonine	9.39	mg/g dry matter	NOSHAN
Canola	Canola meal	Average of analysed values	Proximates	Threonine	15.5	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Rape	Rapeseed hulls	Purified	Proximates	Threonine	9.5	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Fish, unspecified	Fish meal		Proximates	Threonine	30.1	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Threonine	20.5	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Threonine	14.5	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Threonine	16.1	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Threonine	11.3	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Citrus, unspecified	Citrus pulp, dried		Proximates	Threonine	2.01	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Threonine	1.6	g/kg DM	Citrus by-products as ruminant feeds: A review

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Threonine	16.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Threonine	15.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Threonine	16.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Threonine	15.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Threonine	14.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Threonine	16.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Threonine	15.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Threonine	14.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Threonine	16.2	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Threonine	15.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Threonine	10.3	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Threonine	11.7	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Nuts, unspecified	Nut meal	Babacu	Proximates	Threonine	4.9	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Proximates	Threonine	7.8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cassava	Cassava meal		Proximates	Threonine	0.8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Coconut	Coconut meal	Solv	Proximates	Threonine	7.1	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Proximates	Threonine	17.9	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cotton	Cottonseed meal	solv	Proximates	Threonine	13.4	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Poultry	Feather meal	Hydrolyzed	Proximates	Threonine	35	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Proximates	Threonine	12.8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Rice	Rice bran	Defatted	Proximates	Threonine	5.7	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Soy	Soybean meal	solv	Proximates	Threonine	16	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Proximates	Threonine	7.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Wheat	Wheat bran		Proximates	Threonine	4.7	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Canola	Juncea canola meal		Proximates	Threonine	16.1	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Threonine	1.13	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Threonine	4.05	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Threonine	4.48	% protein	Chemical characterizatio n of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Threonine	4.58	% protein	Chemical characterizatio n of tomato pomace

Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Threonine	4.46	% protein	Chemical characterizatio n of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Threonine	4.13	% protein	Chemical characterizatio n of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Threonine	4.6	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Threonine	3.2	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Threonine	3.7	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Threonine	3.6	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Threonine	3.2	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Threonine	3.9	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Threonine	3.5	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Threonine	3.3	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Threonine	3.7	% protein	Feedipedia

Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Threonine	3.2	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Threonine	3.6	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Threonine	3.2	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Threonine	3.3	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Threonine	3.8	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Threonine	3.7	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Threonine	3.6	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Threonine	3.9	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Threonine	3.6	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Threonine	4.2	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Threonine	3.6	% protein	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Threonine	3.2	% protein	Feedipedia

Sorghum	Sorghum gluten meal		Proximates	Threonine	2.5	% protein	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Threonine	3.5	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Threonine	3.3	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Threonine	3.3	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Threonine	3.2	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Threonine	3.2	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Threonine	3.1	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Threonine	3.2	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Threonine	3	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Threonine	3.2	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Threonine	3.4	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Threonine	2.9	% protein	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Threonine	2.9	% protein	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Threonine	3.3	% protein	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Threonine	3.2	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Threonine	4.3	% protein	Feedipedia

Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Threonine	3	% protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Threonine	2.6	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Threonine	3.1	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Threonine	3.3	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Threonine	3.4	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Threonine	3.2	% protein	Feedipedia
Grape	Grape seeds		Proximates	Threonine	2.8	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Threonine	3.9	% protein	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Threonine	3.7	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Threonine	4.4	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Threonine	3.4	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Threonine	3.6	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Threonine	3.8	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Threonine	3.7	% protein	Feedipedia

Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Threonine	3.7	% protein	Feedipedia
Palm	Oil palm kernels		Proximates	Threonine	3	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Threonine	3.1	% protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Threonine	3.3	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Threonine	2.6	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Threonine	3.5	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Threonine	4	% protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Threonine	3.3	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Threonine	2.5	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Threonine	2.8	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Threonine	2.9	% protein	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Threonine	2.9	% protein	Feedipedia

Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Threonine	4.1	% protein	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Threonine	3.8	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Threonine	0.3	% protein	Feedipedia
Pumpkin	Pumpkin seeds	Cucurbita sp.	Proximates	Threonine	2.3	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Threonine	4.3	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Threonine	4.7	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Threonine	4.1	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Threonine	4.8	% protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Threonine	3.4	% protein	Feedipedia

Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Threonine	2.9	% protein	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Threonine	3.2	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Threonine	3.4	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Threonine	3.6	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Threonine	3.5	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Threonine	3.5	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Threonine	3.9	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Threonine	3.8	% protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Threonine	3.7	% protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Threonine	3.9	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Threonine	4.2	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Threonine	3.9	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Threonine	3.9	% protein	Feedipedia

Sunflower	Sunflower screenings		Proximates	Threonine	5.4	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Threonine	3.6	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Threonine	3.6	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Threonine	3.7	% protein	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Threonine	3.3	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Threonine	3.4	% protein	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Threonine	3.4	% protein	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Threonine	2.6	% protein	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Threonine	3.1	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Threonine	3.4	% protein	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Threonine	0.9	% protein	Feedipedia

Citrus, unspecified	Citrus pulp, dried		Proximates	Threonine	3.3	% protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Threonine	2.2	% protein	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Threonine	2.3	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Threonine	3.1	% protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Threonine	2.6	% protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Threonine	3.4	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Threonine	2.1	% protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Threonine	4.5	% protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Threonine	3.8	% protein	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Threonine	3.3	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Threonine	2.6	% protein	Feedipedia

Sugar beet	Sugar beet molasses		Proximates	Threonine	0.6	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Threonine	3.5	% protein	Feedipedia
Potato	Potato peel	Fresh	Proximates	Threonine	1.7	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Threonine	3.8	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Threonine	4.5	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Threonine	3.2	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Threonine	4.9	% protein	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Threonine	0.6	% protein	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Threonine	4.2	% protein	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Proximates	Threonine	5	% protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Threonine	4.4	% protein	Feedipedia
Potato	Sweet potato leaf protein concentrate		Proximates	Threonine	5.3	% protein	Feedipedia
Potato	Sweet potato	Tubers, fresh	Proximates	Threonine	4.7	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Threonine	5.4	% protein	Feedipedia

Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Threonine	4.5	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Threonine	1.2	% protein	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Threonine	2.9	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Threonine	3.2	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Threonine	0.4	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Threonine	0.1	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Threonine	0.6	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Threonine	1.8	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Threonine	5.7	% protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Threonine	4.7	% protein	Feedipedia
Animal by-products, unspecified	Blood meal	Chicken	Proximates	Threonine	4.7	% protein	Feedipedia

Animal by-products, unspecified	Bone meal	Raw	Proximates	Threonine	2.5	% protein	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Threonine	8.9	% protein	Feedipedia
Poultry	Feather meal		Proximates	Threonine	4.6	% protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Threonine	4.1	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Threonine	4.1	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Threonine	4	% protein	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Threonine	4.2	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Threonine	4.6	% protein	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Threonine	2.1	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Threonine	3.5	% protein	Feedipedia
Poultry	Hatchery by product		Proximates	Threonine	3.4	% protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Threonine	4.8	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Threonine	1.5	% protein	Feedipedia

Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Threonine	2.2	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Threonine	4	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Threonine	3.9	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Poultry	Proximates	Threonine	3.9	% protein	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Threonine	3.9	% protein	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Threonine	2.6	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Threonine	3.3	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Threonine	3.4	% protein	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Threonine	3.9	% protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Threonine	4.2	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Threonine	3.9	% protein	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Threonine	4.5	% protein	Feedipedia

Snail	Snail meal	With shells	Proximates	Threonine	4	% protein	Feedipedia
Snail	Snail meal	Without shells	Proximates	Threonine	7.4	% protein	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Threonine	3.4	% protein	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Threonine	3.7	% protein	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Threonine	3.6	% protein	Feedipedia
Whale	Whale meal		Proximates	Threonine	6.5	% protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Threonine	5.7	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Threonine	5.3	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Threonine	4.4	% protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Threonine	4.8	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Threonine	5	% protein	Feedipedia

Rye	Seed residue		Proximates	Threonine	3.51	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Threonine	3.73	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Threonine	3.66	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Fruit and vegetables, unspecified	Pectin residue		Proximates	Threonine	4.01	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Threonine	3.55	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Threonine	4.71	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Wheat	Wheat		Proximates	Threonine	2.9	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Threonine	3.45	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Distillery by-products, unspecified	Distillers solids		Proximates	Threonine	37	g/160g nitrogen	Digestibility and utilisation of diets composed of wet distillers' solids or soyabean meal and supplemented with liquid lysine product for growing pigs

Barley	Barley		Proximates	Threonine	42	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Soy	Soybean meal	Soyabean meal	Proximates	Threonine	38	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Distillery by-products, unspecified	Distillers solids		Proximates	Threonine	39	g/160g nitrogen	Wet barley distillers solids as a protein source for growing pigs
Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Threonine	40.5	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Olive	Olive leaves		Proximates	Threonine	41.7	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Threonine	2.22	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Threonine	2.19	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Threonine	2.16	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Hop	Hops		Proximates	Threonine	0.45	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Threonine	0.12	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Threonine	0.25	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Threonine	1.02	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Threonine	0.15	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Threonine	0.78	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Threonine	0.16	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Threonine	0.92	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Threonine	0.71	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Threonine	0.17	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Threonine	0.8	mg/g DM	NOSHAN

Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Threonine	10.3	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Threonine	2.85	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Threonine	4.97	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Threonine	4.58	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Threonine	3.18	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Threonine	5.12	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Threonine	5.28	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Threonine	2.76	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Threonine	4.68	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Tilapia	Tilapia residue silage	Acid	Proximates	Threonine	4.72	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Threonine	12.8	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Threonine	6.8	g/kg DM	Nutritive value of plantain and chicory for pigs
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Threonine	115.81	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Milk	Milk	Granadina goats, Spain	Proximates	Threonine	138.67	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Threonine	2.9	g/16g N	Feedipedia
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Thricothecenes	<250	µg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Thricothecenes	<250	µg/kg	NOSHAN
Poultry	Hatchery waste		Inorganics	Tin	<0.5	mg/kg	Composition of Australian meat chicken hatchery waste
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Tin	0.2	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Tin	0.5	mg/kg DM	ECN Phyllis 2
Apple	Apple pomace		Inorganics	Tin	<0.01	ppm d.b.	NOSHAN

Orange	Orange peel	Orange	Inorganics	Tin	0.13	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Tin	0.1	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Tin	0.15	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Tin	0.13	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Tin	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Tin	<0.01	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Tin	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Tin	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Tin	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Tin	0.15	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Tin	0.18	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Tin	<0.01	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Tin	<0.01	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Tin	0.13	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Tin	0.16	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Tin	0.29	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Tin	0.61	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Tin	0.21	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Tin	0.13	ppm d.b.	NOSHAN

Cabbage	Cabbage	Sour	Inorganics	Tin	<0.01	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Tin	0.14	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Tin	<0.01	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Tin	<0.01	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Tin	<0.01	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Tin	0.12	ppm d.b.	NOSHAN
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Tin	5	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Tin	6.3	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Tin	0.8	mg/kg DM	ECN Phyllis 2
Apple	Apple pomace		Inorganics	Titanium	2.51	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Titanium	1.66	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Titanium	8.49	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Titanium	10.79	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Titanium	2.03	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Titanium	11.42	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Titanium	7.56	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Titanium	21.01	ppm d.b.	NOSHAN

Cheese	Cheese	Hard	Inorganics	Titanium	6.61	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Titanium	7.48	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Titanium	5.19	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Titanium	7.97	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Titanium	17.44	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Titanium	<0.01	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Titanium	6.12	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Titanium	11.14	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Titanium	66	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Titanium	2.8	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Titanium	7.44	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Titanium	15.27	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Titanium	3.17	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Titanium	12.27	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Titanium	7.4	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Titanium	1.6	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Titanium	2.3	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Titanium	8.36	ppm d.b.	NOSHAN

Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Titanium	12.5	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Titanium	104	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Titanium	41	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Titanium	3.6	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Titanium	348.9	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Titanium	533.6	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Titanium	13	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Titanium	600	mg/kg DM	ECN Phyllis 2
Olive	Olive cake		Inorganics	Titanium	110	mg/kg DM	ECN Phyllis 2
Olive	Olive pits	Pitten. Country: Spain	Inorganics	Titanium	13.5	mg/kg DM	ECN Phyllis 2

Olive	Olive residue		Inorganics	Titanium	50.1	mg/kg DM	ECN Phyllis 2
Olive	Olive residue	Sample lot size: 60kg. Country: Spain	Inorganics	Titanium	129.8	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Titanium	66	mg/kg DM	ECN Phyllis 2
Rice	Rice husk	Ash	Inorganics	Titanium dioxide (TiO2)	8	ppm	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Rice	Rice husk	Silica powder	Inorganics	Titanium dioxide (TiO2)	0	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Aubergine	Aubergine plant		Inorganics	Titanium dioxide (TiO2)	0.05	% ash	ECN Phyllis 2
Bean	Bean plant		Inorganics	Titanium dioxide (TiO2)	0.03	% ash	ECN Phyllis 2
Courgette	Courgette plant		Inorganics	Titanium dioxide (TiO2)	0.03	% ash	ECN Phyllis 2
Cucumber	Cucumber plant		Inorganics	Titanium dioxide (TiO2)	0.01	% ash	ECN Phyllis 2

Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Titanium dioxide (TiO2)	0.04	% ash	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Inorganics	Titanium dioxide (TiO2)	0.02	% ash	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Titanium dioxide (TiO2)	0.26	% ash	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Inorganics	Titanium dioxide (TiO2)	0.04	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Inorganics	Titanium dioxide (TiO2)	0.1	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Titanium dioxide (TiO2)	0.05	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Titanium dioxide (TiO2)	0.08	% ash	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Inorganics	Titanium dioxide (TiO2)	0.09	% ash	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls)	Inorganics	Titanium dioxide (TiO2)	0.15	% ash	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Inorganics	Titanium dioxide (TiO2)	0.3	% ash	ECN Phyllis 2
Coconut	Coconut shell		Inorganics	Titanium dioxide (TiO2)	0.01	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Inorganics	Titanium dioxide (TiO2)	0.1	% ash	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Inorganics	Titanium dioxide (TiO2)	0.03	% ash	ECN Phyllis 2
Olive	Olive		Inorganics	Titanium dioxide (TiO2)	0.1	% ash	ECN Phyllis 2

Olive	Olive cake		Inorganics	Titanium dioxide (TiO2)	0.17	% ash	ECN Phyllis 2
Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Inorganics	Titanium dioxide (TiO2)	0.3	% ash	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Inorganics	Titanium dioxide (TiO2)	0.34	% ash	ECN Phyllis 2
Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Inorganics	Titanium dioxide (TiO2)	0.14	% ash	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Inorganics	Titanium dioxide (TiO2)	0.2	% ash	ECN Phyllis 2
Prunes	Prune pits		Inorganics	Titanium dioxide (TiO2)	0.02	% ash	ECN Phyllis 2

Mustard	Mustard husk		Inorganics	Titanium dioxide (TiO2)	0.1	% ash	ECN Phyllis 2
Apple	Apple pomace, dried	Powder	Waste compounds	Titratable acidity	2.6	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Waste compounds	Titratable acidity	2.99	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Waste compounds	Titratable acidity	2.68	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Waste compounds	Titratable acidity	2.98	%	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder	Waste compounds	Titratable acidity	2.7	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Waste compounds	Titratable acidity	3.13	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Waste compounds	Titratable acidity	2.8	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Waste compounds	Titratable acidity	3.09	% DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamin fractions	Tocopherol, alpha	Tr	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013

Grain, unspecified	Oil extracted from distillers dried grains with soluble		Vitamin fractions	Tocopherol, alpha	295.6	µg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamin fractions	Tocopherol, beta	Tr	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamin fractions	Tocopherol, delta	Tr	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Vitamin fractions	Tocopherol, delta	47.8	µg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamin fractions	Tocopherol, gamma	Tr	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Vitamin fractions	Tocopherol, gamma	760.8	µg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Vitamin fractions	Tocopherols, total	1104.2	µg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Vitamin fractions	Tocotrienol, alpha	471.9	µg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains

Grain, unspecified	Oil extracted from distillers dried grains with soluble		Vitamin fractions	Tocotrienol, delta	80.3	µg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Vitamin fractions	Tocotrienol, gamma	1210	µg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Grain, unspecified	Oil extracted from distillers dried grains with soluble		Vitamin fractions	Tocotrienols, total	1762.3	µg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Tomatoes	Tomato skin		Undesirable components	Tomatine	15.64	mg/kg	NOSHAN
Cranberry	Cranberry pulp meal		Proximates	Total Digestible Nutrients (TDN)	49	% DM	2012FeedComp

Sugar beet	Sugar beet pulp		Proximates	Total Digestible Nutrients (TDN)	68.63	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Total Digestible Nutrients (TDN)	72.58	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Sugar beet	Sugar beet pulp		Proximates	Total Digestible Nutrients (TDN)	70.26	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Rice	Rice bran		Proximates	Total Digestible Nutrients (TDN)	96.02	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Total Digestible Nutrients (TDN)	97.16	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Rice	Rice bran		Proximates	Total Digestible Nutrients (TDN)	102.2	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Almond	Almond hulls		Proximates	Total Digestible Nutrients (TDN)	64.85	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Total Digestible Nutrients (TDN)	66.18	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Almond	Almond hulls		Proximates	Total Digestible Nutrients (TDN)	61.45	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Citrus, unspecified	Citrus pulp		Proximates	Total Digestible Nutrients (TDN)	76.22	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Total Digestible Nutrients (TDN)	82.09	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Citrus, unspecified	Citrus pulp		Proximates	Total Digestible Nutrients (TDN)	75.37	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Bakery	Bakery waste		Proximates	Total Digestible Nutrients (TDN)	83.29	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Total Digestible Nutrients (TDN)	86.55	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Bakery	Bakery waste		Proximates	Total Digestible Nutrients (TDN)	96.12	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Wheat	Wheat mill run		Proximates	Total Digestible Nutrients (TDN)	78.55	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Total Digestible Nutrients (TDN)	71.86	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Wheat	Wheat mill run		Proximates	Total Digestible Nutrients (TDN)	80.44	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Total Digestible Nutrients (TDN)	73.52	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Total Digestible Nutrients (TDN)	76.19	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Total Digestible Nutrients (TDN)	69.16	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Distillers grain	Distillers grain		Proximates	Total Digestible Nutrients (TDN)	83.54	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Total Digestible Nutrients (TDN)	83.99	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs
Distillers grain	Distillers grain		Proximates	Total Digestible Nutrients (TDN)	80.82	% DM	Digestion kinetics of neutral detergent fiber and chemical composition within some selected by-product feedstuffs

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Trans fatty acids	Tr	g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Apple	Apple cake		Undesirable components	Tryptamine	<1	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Undesirable components	Tryptamine	<1	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Tryptamine	6.8	mg/kg	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Tryptamine	<1	mg/kg	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Tryptamine	<1	mg/kg	NOSHAN
Cheese	Cheese	Soft and hard	Undesirable components	Tryptamine	<1	mg/kg	NOSHAN
Cucumber	Cucumber	Sour	Undesirable components	Tryptamine	13.5	mg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Tryptamine	4.1	mg/kg	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	Tryptamine	9.5	mg/kg	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Tryptamine	<1	mg/kg	NOSHAN

Apple	Apple pomace		Proximates	Tryptophan	0.01	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Tryptophan	0.54	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Tryptophan	0.1	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Tryptophan	0.37	mg/g dry matter	NOSHAN
Canola	Canola meal		Proximates	Tryptophan	3.4	mg/g dry matter	A comparative study on amino acid availability of moist heated canla meal for poultry vs. ruminants
Apple	Apple cake		Proximates	Tryptophan	0.03	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Tryptophan	0.67	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Tryptophan	1.84	mg/g dry matter	NOSHAN
Cabbage	Cabbage		Proximates	Tryptophan	0	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Tryptophan	3.95	mg/g dry matter	NOSHAN

Cheese	Cheese	Soft	Proximates	Tryptophan	2.71	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Tryptophan	0.25	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Tryptophan	0.17	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Tryptophan	0.17	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Tryptophan	0.11	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Tryptophan	0.36	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Tryptophan	0.8	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Tryptophan	0.06	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Tryptophan	0.41	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Tryptophan	0.05	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Tryptophan	0.38	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Tryptophan	0.3	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Tryptophan	0.42	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Tryptophan	0.44	mg/g dry matter	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Proximates	Tryptophan	0.07	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Tryptophan	0.55	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Tryptophan	0.05	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Tryptophan	0.03	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Tryptophan	0.33	mg/g dry matter	NOSHAN
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Tryptophan	2.16	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Tryptophan	3.93	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Canola	Juncea canola meal		Proximates	Tryptophan	4.1	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Rape	Rapeseed hulls	Purified	Proximates	Tryptophan	1.6	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Citrus, unspecified	Citrus meal, dried		Proximates	Tryptophan	0.7	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Tryptophan	0.52	g/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Proximates	Tryptophan	0.7	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Tryptophan	0.2	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Tryptophan	4.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Tryptophan	4.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Tryptophan	4.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Tryptophan	4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Tryptophan	4.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Tryptophan	4.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Tryptophan	4.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Tryptophan	4.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Tryptophan	3.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rice	Rice, aerial part	Fresh	Proximates	Tryptophan	2.2	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Tryptophan	1.2	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Tryptophan	1.2	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Tryptophan	0.9	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Tryptophan	1.9	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Tryptophan	1.2	% protein	Feedipedia

Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Tryptophan	0.8	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Tryptophan	0.5	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Tryptophan	0.7	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Tryptophan	0.5	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Tryptophan	2	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Tryptophan	1.8	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Tryptophan	2.2	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Proximates	Tryptophan	1.9	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Tryptophan	2.1	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Tryptophan	3.1	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Tryptophan	2.5	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Tryptophan	0.8	% protein	Feedipedia

Sorghum	Sorghum gluten feed		Proximates	Tryptophan	0.4	% protein	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Tryptophan	0.6	% protein	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Tryptophan	3.3	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Tryptophan	1	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Tryptophan	1.2	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Tryptophan	0.9	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Tryptophan	1	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Tryptophan	1	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Tryptophan	1.4	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Tryptophan	1	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Tryptophan	1.2	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Tryptophan	0.8	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Tryptophan	1.2	% protein	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Tryptophan	1.5	% protein	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Tryptophan	1.1	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Tryptophan	0.5	% protein	Feedipedia

Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Tryptophan	1.3	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Tryptophan	1.2	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Tryptophan	1.1	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Tryptophan	1.3	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Tryptophan	1.8	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Tryptophan	1.6	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Tryptophan	1.7	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Tryptophan	0.8	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Tryptophan	0.7	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Tryptophan	0.9	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Tryptophan	1.7	% protein	Feedipedia
Palm	Oil palm kernels		Proximates	Tryptophan	2.8	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Tryptophan	0.7	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Tryptophan	1.3	% protein	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Tryptophan	0.7	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Tryptophan	0.8	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Tryptophan	1.1	% protein	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Tryptophan	1.1	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Tryptophan	0.2	% protein	Feedipedia
Pumpkin	Pumpkin seeds	Cucurbita sp.	Proximates	Tryptophan	1.5	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Tryptophan	1.2	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Tryptophan	1.3	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Tryptophan	1.2	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Tryptophan	1.3	% protein	Feedipedia

Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Tryptophan	1.2	% protein	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Tryptophan	0.9	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Tryptophan	1.3	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Tryptophan	0.8	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Tryptophan	1.3	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Tryptophan	1.4	% protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Tryptophan	1.4	% protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Tryptophan	1.3	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Tryptophan	1.3	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Tryptophan	1.3	% protein	Feedipedia
Sunflower	Sunflower screenings		Proximates	Tryptophan	1.1	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Tryptophan	1.3	% protein	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Tryptophan	1.2	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Tryptophan	1.2	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Tryptophan	1.6	% protein	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Tryptophan	0.9	% protein	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Tryptophan	1.5	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Tryptophan	0.9	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Tryptophan	1	% protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Tryptophan	1.1	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Tryptophan	1.1	% protein	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Tryptophan	3	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Tryptophan	1	% protein	Feedipedia

Carrot	Carrot	Roots, fresh	Proximates	Tryptophan	1.4	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Tryptophan	1.5	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Tryptophan	1	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Tryptophan	1.1	% protein	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Tryptophan	4.4	% protein	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Tryptophan	0.7	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Tryptophan	1	% protein	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Tryptophan	1.3	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Tryptophan	0.8	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Tryptophan	0.4	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Tryptophan	0.8	% protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Tryptophan	1.4	% protein	Feedipedia
Animal by-products, unspecified	Blood meal	Chicken	Proximates	Tryptophan	1.1	% protein	Feedipedia

Animal by-products, unspecified	Bone meal	Steamed	Proximates	Tryptophan	0.8	% protein	Feedipedia
Eggs	Eggshells		Proximates	Tryptophan	0	% protein	Feedipedia
Poultry	Feather meal		Proximates	Tryptophan	0.6	% protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Tryptophan	1.1	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Tryptophan	1	% protein	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Tryptophan	1.1	% protein	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Tryptophan	0.3	% protein	Feedipedia
Poultry	Hatchery by product		Proximates	Tryptophan	1.3	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Tryptophan	1.3	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Tryptophan	1.1	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Poultry	Proximates	Tryptophan	1.3	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Tryptophan	0.6	% protein	Feedipedia

Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Tryptophan	0.8	% protein	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Tryptophan	0.7	% protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Tryptophan	1.5	% protein	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Tryptophan	0.5	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Tryptophan	1.1	% protein	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Tryptophan	0.9	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Tryptophan	1	% protein	Feedipedia
Snail	Snail meal	Without shells	Proximates	Tryptophan	1.2	% protein	Feedipedia
Whale	Whale meal		Proximates	Tryptophan	1	% protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Tryptophan	1.5	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Tryptophan	1.2	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Tryptophan	1.1	% protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Tryptophan	1.4	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Tryptophan	1.3	% protein	Feedipedia

Hop	Hops		Proximates	Tryptophan	0.8	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Tryptophan	0.33	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Tryptophan	0.37	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Tryptophan	4.43	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Tryptophan	0.33	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Tryptophan	0.71	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Tryptophan	0.58	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Tryptophan	0.84	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Tryptophan	0.24	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Tryptophan	0	mg/g DM	NOSHAN
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Tryptophan	3.7	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)

Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Tryptophan	0.79	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Tryptophan	0.65	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Tryptophan	0.66	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Tryptophan	0.97	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Tryptophan	0.87	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Freshwater fish silage	Acid	Proximates	Tryptophan	1.34	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Tryptophan	0.52	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Tryptophan	0.61	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Tryptophan	0.43	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Tryptophan	5.7	g/kg DM	Nutritive value of plantain and chicory for pigs

Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Tryptophan	3.5	g/kg DM	Nutritive value of plantain and chicory for pigs
Bakery	Bakery and viennoiserie by products		Proximates	Tryptophan	1.1	g/16g N	Feedipedia
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Tryptophan/60	Tr	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Tryptophane	1.32	% protein	Chemical characterizatio n of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Tryptophane	1.2	% protein	Chemical characterizatio n of tomato pomace

Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Tryptophane	1.33	% protein	Chemical characterizatio n of tomato pomace
Nuts, unspecified	Nut meal	Babacu	Proximates	Tryptophane	0.9	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Proximates	Tryptophane	3.6	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cassava	Cassava meal		Proximates	Tryptophane	0.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Coconut	Coconut meal	Solv	Proximates	Tryptophane	3.4	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Proximates	Tryptophane	2.3	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Cotton	Cottonseed meal	solv	Proximates	Tryptophane	5.5	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Poultry	Feather meal	Hydrolyzed	Proximates	Tryptophane	6	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Proximates	Tryptophane	1.8	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Rice	Rice bran	Defatted	Proximates	Tryptophane	2.1	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Soy	Soybean meal	solv	Proximates	Tryptophane	7.4	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Proximates	Tryptophane	2.3	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Wheat	Wheat bran		Proximates	Tryptophane	2.2	g/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Straw	Straw		Inorganics	Tungsten	13	mg/kg DM	ECN Phyllis 2
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Tungsten	<0.25	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations
Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Inorganics	Tungsten	0.13	mg/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK

Food, unspecified	Food leftovers	Source segregated domestic food waste in Luton, UK	Inorganics	Tungsten	0.26	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Source segregated domestic food waste in Hackney, UK	Inorganics	Tungsten	0.26	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Ludlow, UK	Inorganics	Tungsten	<0.24	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Tungsten	<0.04	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Abattoir wastes, unspecified	Abattoir raw effluent		Waste compounds	Turbidity	630	NTU	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Waste compounds	Turbidity	221	NTU	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Waste compounds	Turbidity	246	NTU	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Waste compounds	Turbidity	302	NTU	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Waste compounds	Turbidity	291	NTU	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Waste compounds	Turbidity	0.8	NTU	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Waste compounds	Turbidity	0.8	NTU	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Waste compounds	Turbidity	0.7	NTU	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Waste compounds	Turbidity	1.8	NTU	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Waste compounds	Turbidity	0.06	NTU	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Waste compounds	Turbidity	0.09	NTU	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Waste compounds	Turbidity	0.03	NTU	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Apple	Apple cake		Undesirable components	Tyramine	<1	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Undesirable components	Tyramine	<1	mg/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Tyramine	2.8	mg/kg	NOSHAN
Cheese	Cheese	Hard	Undesirable components	Tyramine	84.1	mg/kg	NOSHAN
Cheese	Cheese	Soft	Undesirable components	Tyramine	97.4	mg/kg	NOSHAN
Cheese	Cheese	Soft and hard	Undesirable components	Tyramine	5	mg/kg	NOSHAN
Cucumber	Cucumber	Sour	Undesirable components	Tyramine	29.7	mg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Tyramine	46.9	mg/kg	NOSHAN
Cabbage	Cabbage	Sour	Undesirable components	Tyramine	269.7	mg/kg	NOSHAN
Yoghurt	Yoghurt		Undesirable components	Tyramine	<1	mg/kg	NOSHAN
Fish, unspecified	Fish	Raw, fresh	Undesirable components	Tyramine	<30	µg/g	Alternate protein sources for salmon and trout diets

Fish, unspecified	Fish	Raw, moderately fresh	Undesirable components	Tyramine	400	µg/g	Alternate protein sources for salmon and trout diets
Fish, unspecified	Fish	Raw, stale	Undesirable components	Tyramine	800	µg/g	Alternate protein sources for salmon and trout diets
Apple	Apple pomace		Proximates	Tyrosine	0.5	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Tyrosine	2.18	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Tyrosine	2.13	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Tyrosine	2.14	mg/g dry matter	NOSHAN
Apple	Apple cake		Proximates	Tyrosine	0.49	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Tyrosine	7.52	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Tyrosine	6.76	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Tyrosine	20.05	mg/g dry matter	NOSHAN

Cheese	Cheese	Soft	Proximates	Tyrosine	15.55	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Tyrosine	30.51	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Tyrosine	2.6	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Tyrosine	1.98	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Tyrosine	3.3	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Tyrosine	4.69	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Tyrosine	6.1	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Tyrosine	1.12	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Tyrosine	0.78	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Tyrosine	0.57	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Tyrosine	0.71	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Tyrosine	0.74	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Tyrosine	6.08	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Tyrosine	0.68	mg/g dry matter	NOSHAN

Sugar beet	Sugar beet, dried	Flakes	Proximates	Tyrosine	3.15	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Tyrosine	0.61	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Tyrosine	0.61	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Tyrosine	0.27	mg/g dry matter	NOSHAN
Yoghurt	Yoghurt		Proximates	Tyrosine	10.26	mg/g dry matter	NOSHAN
Canola	Canola meal	Average of analysed values	Proximates	Tyrosine	9.6	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities

Rape	Rapeseed hulls	Purified	Proximates	Tyrosine	6.3	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls
Cabbage	Cabbage meal		Proximates	Tyrosine	10.1	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Orange	Orange pulp, dried		Proximates	Tyrosine	0.7	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Tyrosine	7.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Tyrosine	7.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Tyrosine	7.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Tyrosine	6.6	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Tyrosine	8.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Tyrosine	7.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Tyrosine	7.9	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Tyrosine	7.4	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Tyrosine	10.1	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Tyrosine	10.7	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Rye	Seed residue		Proximates	Tyrosine	2.29	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Tyrosine	2.74	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Tyrosine	3.24	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Tyrosine	2.48	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Tyrosine	2.88	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Tyrosine	4.06	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Tyrosine	2.79	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Tyrosine	2.94	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Tyrosine	16.2	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Tyrosine	14.7	g AA-N/kg total N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves

Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Tyrosine	0.35	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Tyrosine	0.24	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Tyrosine	0.24	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Tyrosine	1.02	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Tyrosine	2.07	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Tyrosine	2.76	% protein	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Tyrosine	2.88	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Tyrosine	4.02	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Tyrosine	3.69	% protein	Chemical characterization of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Tyrosine	4.2	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Tyrosine	2.9	% protein	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Tyrosine	2	% protein	Feedipedia

Palm	Oil palm leaflets	Fresh	Proximates	Tyrosine	2.4	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Tyrosine	3	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Tyrosine	3	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Tyrosine	3.5	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Tyrosine	3.5	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Tyrosine	4.4	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Tyrosine	2.2	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Tyrosine	3.9	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Tyrosine	4.1	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Tyrosine	3.3	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Tyrosine	4.1	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Tyrosine	4.1	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Tyrosine	3.7	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Tyrosine	3.4	% protein	Feedipedia

Rice	Rice bran	Defatted, fibre <11%	Proximates	Tyrosine	4.6	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Tyrosine	3.2	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Tyrosine	3.8	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Tyrosine	5	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Tyrosine	8.8	% protein	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Tyrosine	2.4	% protein	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Tyrosine	3.6	% protein	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Tyrosine	2.4	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Tyrosine	4	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Tyrosine	4.2	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Tyrosine	3.8	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Tyrosine	4.2	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Tyrosine	4.2	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Tyrosine	2.7	% protein	Feedipedia

Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Tyrosine	2.9	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Tyrosine	2.9	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Tyrosine	2.8	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Tyrosine	2.7	% protein	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Tyrosine	2.7	% protein	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Tyrosine	2.9	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Tyrosine	2.6	% protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Tyrosine	2.1	% protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Tyrosine	4.6	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Tyrosine	2.7	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Tyrosine	2.9	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Tyrosine	2.9	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Tyrosine	2.7	% protein	Feedipedia
Grape	Grape seeds		Proximates	Tyrosine	1.3	% protein	Feedipedia

Flax/linseed	Linseed meal		Proximates	Tyrosine	2.5	% protein	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Tyrosine	2.4	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Tyrosine	2.8	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Tyrosine	2.7	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Tyrosine	2.9	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Tyrosine	2.7	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Tyrosine	3	% protein	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Tyrosine	2.6	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Tyrosine	2.5	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Tyrosine	3.2	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Tyrosine	2.9	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Tyrosine	3.6	% protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Tyrosine	1.3	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Tyrosine	3.5	% protein	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Tyrosine	3.8	% protein	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Tyrosine	3.6	% protein	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Tyrosine	3.9	% protein	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Tyrosine	2.7	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Tyrosine	0.3	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Tyrosine	2.9	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Tyrosine	3.2	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Tyrosine	3	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Tyrosine	3.1	% protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Tyrosine	1.4	% protein	Feedipedia

Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Tyrosine	2.9	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Tyrosine	3.4	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Tyrosine	2.5	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Tyrosine	2.9	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Tyrosine	3.8	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Tyrosine	3.5	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Tyrosine	3.5	% protein	Feedipedia
Soy	Soybean meal	High oil (expeller)	Proximates	Tyrosine	3.5	% protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Tyrosine	3.6	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Tyrosine	3.6	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Tyrosine	3.6	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Tyrosine	3.6	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Tyrosine	2.3	% protein	Feedipedia

Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Tyrosine	2.4	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Tyrosine	2.3	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Tyrosine	2.2	% protein	Feedipedia
Tomatoes	Tomato oil cake		Proximates	Tyrosine	4.1	% protein	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Tyrosine	2.7	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Tyrosine	4.2	% protein	Feedipedia
Banana	Banana fruits	Immature, fresh	Proximates	Tyrosine	0.5	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Tyrosine	3.2	% protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Tyrosine	1.2	% protein	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Tyrosine	1.1	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Tyrosine	1.9	% protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Tyrosine	3.1	% protein	Feedipedia

Date	Date palm fruits	Phoenix dactylifera	Proximates	Tyrosine	1.3	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Tyrosine	3	% protein	Feedipedia
Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Tyrosine	2.1	% protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Tyrosine	2.4	% protein	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Tyrosine	6.8	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Tyrosine	1.9	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Tyrosine	2.6	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Tyrosine	2.8	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Tyrosine	4.2	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Tyrosine	4.8	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Tyrosine	4.3	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Tyrosine	4.8	% protein	Feedipedia

Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Tyrosine	1.2	% protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Tyrosine	4.1	% protein	Feedipedia
Potato	Sweet potato leaf protein concentrate		Proximates	Tyrosine	4.4	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Tyrosine	3.8	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Tyrosine	4.8	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Tyrosine	1.9	% protein	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Tyrosine	5.2	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Tyrosine	1.3	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Tyrosine	0.6	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Tyrosine	0.3	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Tyrosine	0.1	% protein	Feedipedia

Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Tyrosine	1.1	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Tyrosine	4.3	% protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Tyrosine	3	% protein	Feedipedia
Animal by-products, unspecified	Blood meal	Chicken	Proximates	Tyrosine	2.8	% protein	Feedipedia
Animal by-products, unspecified	Bone meal	Steamed	Proximates	Tyrosine	11.1	% protein	Feedipedia
Poultry	Feather meal		Proximates	Tyrosine	2.5	% protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Tyrosine	2.9	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Tyrosine	3.1	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Tyrosine	3.2	% protein	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Tyrosine	3.9	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Tyrosine	3.1	% protein	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Tyrosine	1.1	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Tyrosine	2.4	% protein	Feedipedia

Poultry	Hatchery by product		Proximates	Tyrosine	2.4	% protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Tyrosine	4.6	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Tyrosine	0.6	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Tyrosine	0.6	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Tyrosine	3.5	% protein	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Tyrosine	0	% protein	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Tyrosine	2.3	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Tyrosine	2.2	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Tyrosine	2.3	% protein	Feedipedia
Poultry	Offal meal	Poultry	Proximates	Tyrosine	2.6	% protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Tyrosine	2.6	% protein	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Tyrosine	2.4	% protein	Feedipedia

Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Tyrosine	3.8	% protein	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Tyrosine	3.5	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Tyrosine	3.3	% protein	Feedipedia
Whale	Whale meal		Proximates	Tyrosine	2.3	% protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Tyrosine	2	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Tyrosine	2	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Tyrosine	2.7	% protein	Feedipedia
Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Tyrosine	4.4	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Tyrosine	3.6	% protein	Feedipedia
Hop	Hops		Proximates	Tyrosine	0.42	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Tyrosine	0.4	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Tyrosine	1.02	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Tyrosine	0.95	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Tyrosine	0.34	mg/g DM	NOSHAN

Cheese	Cheese	Soft and hard	Proximates	Tyrosine	0.78	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Tyrosine	0.1	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Tyrosine	1.84	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Tyrosine	0.63	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Tyrosine	0.08	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Tyrosine	0	mg/g DM	NOSHAN
Apple	Apple pomace		Proximates	Tyrosine	0	% D AA	NOSHAN
Orange	Orange peel	Orange	Proximates	Tyrosine	0	% D AA	NOSHAN
Cheese	Whey	Milk	Proximates	Tyrosine	0	% D AA	NOSHAN
Hop	Hops		Proximates	Tyrosine	1.22	% D AA	NOSHAN
Apple	Apple cake		Proximates	Tyrosine	0	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Tyrosine	0	% D AA	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Tyrosine	1.62	% D AA	NOSHAN
Cabbage	Cabbage		Proximates	Tyrosine	0	% D AA	NOSHAN
Cheese	Cheese	Hard	Proximates	Tyrosine	1.81	% D AA	NOSHAN
Cheese	Cheese	Soft	Proximates	Tyrosine	1.74	% D AA	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Tyrosine	2.72	% D AA	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Tyrosine	0	% D AA	NOSHAN

Grape	Grape pomace		Proximates	Tyrosine	2.38	% D AA	NOSHAN
Barley	Malted barley germs		Proximates	Tyrosine	0	% D AA	NOSHAN
Barley	Malted barley germs		Proximates	Tyrosine	1.31	% D AA	NOSHAN
Mushrooms	Mushrooms		Proximates	Tyrosine	2.87	% D AA	NOSHAN
Olive	Olive pomace		Proximates	Tyrosine	0.97	% D AA	NOSHAN
Onion	Onion hulls		Proximates	Tyrosine	0.68	% D AA	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Tyrosine	0	% D AA	NOSHAN
Potato	Potato	Selected	Proximates	Tyrosine	0	% D AA	NOSHAN
Potato	Potato skin		Proximates	Tyrosine	0	% D AA	NOSHAN
Rape	Rapeseed press cake		Proximates	Tyrosine	2.52	% D AA	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Tyrosine	0	% D AA	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Tyrosine	0.94	% D AA	NOSHAN
Tomatoes	Tomato skin		Proximates	Tyrosine	0	% D AA	NOSHAN
Apple	Apple	Whole	Proximates	Tyrosine	0	% D AA	NOSHAN
Pears	Pear	Whole	Proximates	Tyrosine	0	% D AA	NOSHAN
Yoghurt	Yoghurt		Proximates	Tyrosine	1.33	% D AA	NOSHAN
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Tyrosine	1.78	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Tyrosine	1.9	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Tyrosine	3.45	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Tyrosine	2.4	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Tyrosine	2.02	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Tyrosine	2.73	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Tilapia	Tilapia filleting residue		Proximates	Tyrosine	1.22	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Tyrosine	1.7	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Acid	Proximates	Tyrosine	2.43	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Proximates	Tyrosine	3.87	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Proximates	Tyrosine	1.04	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Proximates	Tyrosine	0.63	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Proximates	Tyrosine	2.45	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Milk	Milk	Holstein Friesian cows, Spain	Proximates	Tyrosine	159.99	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Milk	Milk	Granadina goats, Spain	Proximates	Tyrosine	162.51	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Lemon	Sweet lemon pulp	Citrus limetta	Waste compounds	Undedradable fraction	4.1	%	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Waste compounds	Undedradable fraction	5.9	%	Utilization of fruit and vegetable wastes, FAO

Potato	Potato fibres	Pressed	Proximates	Uronic acid	100	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Uronic acid	65	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Buffer insoluble solids		Proximates	Uronic acid	19	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Proximates	Uronic acid	55	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Residue from pressed potato fibres		Proximates	Uronic acid	43	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Uronic acid	79	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Uronic acid	53	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Apple	Apple pomace		Proximates	Uronic acid	728.97	mg/g dry pectins	NOSHAN
Orange	Orange peel	Orange	Proximates	Uronic acid	849.67	mg/g dry pectins	NOSHAN
Hop	Hops		Proximates	Uronic acid	898.62	mg/g dry pectins	NOSHAN
Apple	Apple cake		Proximates	Uronic acid	735.82	mg/g dry pectins	NOSHAN

Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Uronic acid	716.46	mg/g dry pectins	NOSHAN
Cabbage	Cabbage		Proximates	Uronic acid	559.89	mg/g dry pectins	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Uronic acid	478.34	mg/g dry pectins	NOSHAN
Grape	Grape pomace		Proximates	Uronic acid	658.28	mg/g dry pectins	NOSHAN
Olive	Olive pomace		Proximates	Uronic acid	532.7	mg/g dry pectins	NOSHAN
Onion	Onion hulls		Proximates	Uronic acid	972.55	mg/g dry pectins	NOSHAN
Rape	Rapeseed press cake		Proximates	Uronic acid	93.38	mg/g dry pectins	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Uronic acid	716.46	mg/g dry pectins	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Uronic acid	680.6	mg/g dry pectins	NOSHAN
Tomatoes	Tomato skin		Proximates	Uronic acid	677.14	mg/g dry pectins	NOSHAN
Apple	Apple	Whole	Proximates	Uronic acid	566.48	mg/g dry pectins	NOSHAN
Pears	Pear	Whole	Proximates	Uronic acid	865.01	mg/g dry pectins	NOSHAN

Orange	Orange pulp, dried		Proximates	Uronic acid	215	g/kg DM	Citrus by-products as ruminant feeds: A review
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Uronic acid	16	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Uronic acid	8	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Uronic acid	7	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Potato	Potato fibres	Pressed	Proximates	Uronic acid	18	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Uronic acid	42	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Buffer insoluble solids		Proximates	Uronic acid	8	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Proximates	Uronic acid	29	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Uronic acid	11	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Uronic acid	18	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Uronic acid	23	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Rye	Seed residue		Proximates	Uronic acid	16	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Uronic acid	101	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Uronic acid	15	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Uronic acid	108	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Uronic acid	133	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Sugar beet	Sugar beet pulp		Proximates	Uronic acid	188	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Uronic acid	5	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Uronic acid	5	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Uronic acid	4.81	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Uronic acid	3.64	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Uronic acid	8.53	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Proximates	Uronic acid	6.62	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Uronic acid	5.14	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Uronic acid	0.43	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Uronic acid	0.26	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Uronic acid	0.27	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Uronic acid	0.73	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Uronic acid	0.72	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Apple	Pectin	Extracted, apple	Proximates	Uronic acid	64.67	% w/w d.b.	Pectin from apple pomace: extraction, characterization and utilization
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Uronic acid, soluble	5	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Uronic acid, soluble	3	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Uronic acid, soluble	3	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Corn, with solubles	Proximates	Uronic acid-to-xylose ratio (UA/X ratio)	0.2	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Uronic acid-to-xylose ratio (UA/X ratio)	0.09	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Uronic acid-to-xylose ratio (UA/X ratio)	0.08	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Sugar beet	Sugar beet molasses	From pulp	Proximates	Uronic acids	152	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Uronic acids	167	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Uronic acids	50	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Carrot	Carrot		Proximates	Uronic acids	101	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet molasses	From pulp	Proximates	Uronic acids	41	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Uronic acids	45	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Uronic acids	7	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Carrot	Carrot		Proximates	Uronic acids	10	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Orange	Orange peel	Orange	Waste compounds	Valencen	0.58	% in 0.6 ml/100g	NOSHAN
Apple	Apple pomace		Proximates	Valine	1.95	mg/g dry matter	NOSHAN
Orange	Orange peel	Orange	Proximates	Valine	3.8	mg/g dry matter	NOSHAN
Cheese	Whey	Milk	Proximates	Valine	5	mg/g dry matter	NOSHAN
Hop	Hops		Proximates	Valine	5.08	mg/g dry matter	NOSHAN

Canola	Canola meal		Proximates	Valine	11.9	mg/g dry matter	A comparative study on amino acid availability of moist heated canla meal for poultry vs. ruminants
Apple	Apple cake		Proximates	Valine	0.8	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Valine	17.48	mg/g dry matter	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Valine	13.33	mg/g dry matter	NOSHAN
Cabbage	Cabbage		Proximates	Valine	2.9	mg/g dry matter	NOSHAN
Cheese	Cheese	Hard	Proximates	Valine	20.05	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft	Proximates	Valine	20.19	mg/g dry matter	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Valine	40.32	mg/g dry matter	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Valine	4.4	mg/g dry matter	NOSHAN
Grape	Grape pomace		Proximates	Valine	4.41	mg/g dry matter	NOSHAN

Barley	Malted barley germs		Proximates	Valine	11.31	mg/g dry matter	NOSHAN
Barley	Malted barley germs		Proximates	Valine	13.46	mg/g dry matter	NOSHAN
Mushrooms	Mushrooms		Proximates	Valine	12.1	mg/g dry matter	NOSHAN
Olive	Olive pomace		Proximates	Valine	2.75	mg/g dry matter	NOSHAN
Onion	Onion hulls		Proximates	Valine	1.72	mg/g dry matter	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Valine	0.83	mg/g dry matter	NOSHAN
Potato	Potato	Selected	Proximates	Valine	2.66	mg/g dry matter	NOSHAN
Potato	Potato skin		Proximates	Valine	2.87	mg/g dry matter	NOSHAN
Rape	Rapeseed press cake		Proximates	Valine	13.41	mg/g dry matter	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Valine	3.05	mg/g dry matter	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Valine	6.42	mg/g dry matter	NOSHAN
Tomatoes	Tomato skin		Proximates	Valine	0.68	mg/g dry matter	NOSHAN
Apple	Apple	Whole	Proximates	Valine	0.58	mg/g dry matter	NOSHAN
Pears	Pear	Whole	Proximates	Valine	1.11	mg/g dry matter	NOSHAN

Yoghurt	Yoghurt		Proximates	Valine	12.74	mg/g dry matter	NOSHAN
Canola	Canola meal	Average of analysed values	Proximates	Valine	17.4	g/kg DM	Chemical and nutritivie characteristics of canola meal from Canadian processing facilities
Rape	Rapeseed hulls	Purified	Proximates	Valine	9.8	g/kg DM	Apparent protein digestibility and recovery of endogenous nitrogen at the terminal ileum of pigs fed diets containing various soyabean products, peas or rapeseed hulls

Fish, unspecified	Fish meal		Proximates	Valine	35.1	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Soy	Soybean meal		Proximates	Valine	22	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Cotton	Cottonseed meal		Proximates	Valine	19.1	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Rape	Rapeseed meal		Proximates	Valine	19.3	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology

Nuts, unspecified	Nut meal	Peanut	Proximates	Valine	13.8	g/kg DM	Assessment of the feasibility of including high levels of oilseed meals in the diets of juvenile Chinese mitten crabs (Eriocheir sinensis): Effects on growth, non-specific immunity, hepatopancreatic function, and intestinal morphology
Cabbage	Cabbage meal		Proximates	Valine	5.4	g/kg DM	Brassica by-products in diets of rainbow trout (Oncorhynchus mykiss) and their effects on performance, body composition, thyroid status and liver histology

Citrus, unspecified	Citrus pulp, dried		Proximates	Valine	2.61	g/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Proximates	Valine	2.4	g/kg DM	Citrus by-products as ruminant feeds: A review
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Valine	20.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Valine	19.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Valine	20.7	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Hunan, China	Proximates	Valine	19.1	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Valine	19	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Valine	20.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Anhui, China	Proximates	Valine	19.8	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Valine	20.3	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs

Rape	Rapeseed cake	Double-low. Location: Jiangxi, China	Proximates	Valine	19.5	g/kg DM	Determination of the energy content and amino acid digestibility of double-low rapeseed cakes fed to growing pigs
Distillers grain	Distillers grain	Maize, dried, with soluble	Proximates	Valine	14.2	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble
Wheat	Wheat grain	Distillers', dried, with soluble	Proximates	Valine	16.4	g/kg	Chemical composition and prediction of amino acid content of maize- and wheat-Distillers' Dried Grains with Soluble

Canola	Juncea canola meal		Proximates	Valine	19.9	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Rye	Seed residue		Proximates	Valine	4.4	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Pea	Pea hull		Proximates	Valine	4.51	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Valine	5.43	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Valine	5.9	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Potato	Potato pulp		Proximates	Valine	5.27	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Sugar beet	Sugar beet pulp		Proximates	Valine	6.44	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Valine	4.17	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Barley	Barley		Proximates	Valine	4.94	g/16g N	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Olive	Olive cake, dried	Dried, two-stage dried	Proximates	Valine	107	g AA-N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Olive	Olive leaves		Proximates	Valine	90.2	g AA-N	Chemical composition and nutrients availability for goats and sheep of two-stage olive cake and olive leaves
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Valine	2.2	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Valine	2.14	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Valine	2.2	% DM	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Proximates	Valine	1.98	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Beef	Blood meal, dried	Vat dried. Abattoir waste	Proximates	Valine	7.05	%	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Valine	0.58	% protein	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Valine	7.04	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Valine	0.99	% protein	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Valine	1.15	% protein	Chemical characterization of tomato pomace
Rice	Rice, aerial part	Fresh	Proximates	Valine	6.4	% protein	Feedipedia
Wheat	Triticale grain		Proximates	Valine	4.6	% protein	Feedipedia
Palm	Oil palm fronds	Fresh	Proximates	Valine	4.8	% protein	Feedipedia

Palm	Oil palm leaflets	Fresh	Proximates	Valine	4.8	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Proximates	Valine	5.2	% protein	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Proximates	Valine	5.3	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Proximates	Valine	4.8	% protein	Feedipedia
Rice	Rice grain	Polished	Proximates	Valine	6.4	% protein	Feedipedia
Rice	Rice grain	Brown	Proximates	Valine	5.7	% protein	Feedipedia
Barley	Barley rootlets	Dehydrated	Proximates	Valine	4.5	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Proximates	Valine	5.1	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Proximates	Valine	4.4	% protein	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Proximates	Valine	4.9	% protein	Feedipedia
Distillers grain	Distillers grains and solubles	Maize, wet	Proximates	Valine	4.4	% protein	Feedipedia
Rice	Rice bran	Fibre <4%	Proximates	Valine	5.4	% protein	Feedipedia
Rice	Rice bran	Fibre 4-11%	Proximates	Valine	5.5	% protein	Feedipedia
Rice	Rice bran	Fibre 11-20%	Proximates	Valine	5.4	% protein	Feedipedia

Rice	Rice bran	Defatted, fibre <11%	Proximates	Valine	5.7	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Proximates	Valine	5.3	% protein	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Proximates	Valine	6.2	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Proximates	Valine	5.4	% protein	Feedipedia
Distillers grain	Distillers grain, dried	Dried, Sorghum, with or without solubles	Proximates	Valine	5.5	% protein	Feedipedia
Sorghum	Sorghum gluten feed		Proximates	Valine	5.6	% protein	Feedipedia
Sorghum	Sorghum gluten meal		Proximates	Valine	4.4	% protein	Feedipedia
Sorghum	Sorghum germ oil meal		Proximates	Valine	5.3	% protein	Feedipedia
Sorghum	Sorghum grain	All types	Proximates	Valine	4.9	% protein	Feedipedia
Sorghum	Sorghum grain	High tannin	Proximates	Valine	5.1	% protein	Feedipedia
Sorghum	Sorghum grain	Low tannin	Proximates	Valine	4.8	% protein	Feedipedia
Sorghum	Sorghum grain	Red varieties	Proximates	Valine	4.7	% protein	Feedipedia
Sorghum	Sorghum grain	White varieties	Proximates	Valine	4.6	% protein	Feedipedia
Wheat	Wheat bran		Proximates	Valine	4.6	% protein	Feedipedia

Wheat	Wheat grain	Distillers, with solubles, starch <7%	Proximates	Valine	4.3	% protein	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch >7%	Proximates	Valine	4.1	% protein	Feedipedia
Wheat	Wheat germs		Proximates	Valine	4.7	% protein	Feedipedia
Wheat	Wheat grain		Proximates	Valine	4.3	% protein	Feedipedia
Wheat	Wheat grain	Durum	Proximates	Valine	4.4	% protein	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Proximates	Valine	5.2	% protein	Feedipedia
Castor	Castor oil meal	Ricinus communis	Proximates	Valine	5.4	% protein	Feedipedia
Cacao/cocoa	Cocoa pod husks		Proximates	Valine	5.6	% protein	Feedipedia
Coconut	Coconut copra	Oilmeal, expeller extraction	Proximates	Valine	4.7	% protein	Feedipedia
Cotton	Cottonseed hulls		Proximates	Valine	3.1	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Proximates	Valine	4.7	% protein	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Proximates	Valine	4.2	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, high oil	Proximates	Valine	4.4	% protein	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Proximates	Valine	4.3	% protein	Feedipedia

Grape	Grape seeds		Proximates	Valine	4.2	% protein	Feedipedia
Flax/linseed	Linseed meal		Proximates	Valine	5.2	% protein	Feedipedia
Flax/linseed	Linseed meal	Solvent extraction	Proximates	Valine	4.7	% protein	Feedipedia
Flax/linseed	Linseeds		Proximates	Valine	5.2	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil >5%	Proximates	Valine	5.2	% protein	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Proximates	Valine	5.4	% protein	Feedipedia
Corn	Maize germ meal	Protein <20%, oil >5%	Proximates	Valine	4.7	% protein	Feedipedia
Corn	Maize germ	Oil <30%	Proximates	Valine	5.4	% protein	Feedipedia
Mustard	Mustard oil meal	Solvent extraction, Brassica sp.	Proximates	Valine	4.6	% protein	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Proximates	Valine	5	% protein	Feedipedia
Palm	Palm kernel meal	Solvent extraction	Proximates	Valine	5.4	% protein	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Proximates	Valine	3.6	% protein	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Proximates	Valine	4.4	% protein	Feedipedia
Nuts, unspecified	Nut crop residues	Peanut, fresh	Proximates	Valine	4.8	% protein	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Proximates	Valine	4.9	% protein	Feedipedia

Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Proximates	Valine	3.8	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Proximates	Valine	4.1	% protein	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Proximates	Valine	4.1	% protein	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Proximates	Valine	4.1	% protein	Feedipedia
Poppy	Poppy oil meal	Mechanical extraction, Papaver somniferum	Proximates	Valine	5.4	% protein	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Proximates	Valine	5.2	% protein	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Proximates	Valine	0.3	% protein	Feedipedia
Pumpkin	Pumpkin seeds	Cucurbita sp.	Proximates	Valine	4.2	% protein	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Proximates	Valine	5.1	% protein	Feedipedia

Rape	Rapeseed meal	00 type, oil >5% as fed, mechanical extraction	Proximates	Valine	5.6	% protein	Feedipedia
Canola	Canola meal	Oil <5% as fed	Proximates	Valine	5	% protein	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Proximates	Valine	5.5	% protein	Feedipedia
Safflower	Safflower hulls	Carthamus tinctorius	Proximates	Valine	3.9	% protein	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Proximates	Valine	4.9	% protein	Feedipedia
Safflower	Safflower seeds	Carthamus tinctorius	Proximates	Valine	5.3	% protein	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Proximates	Valine	4.5	% protein	Feedipedia
Sesame	Sesame meal	Solvent extraction	Proximates	Valine	4.1	% protein	Feedipedia
Soy	Soybean, aerial part	Fresh	Proximates	Valine	4.6	% protein	Feedipedia
Soy	Soybean hulls		Proximates	Valine	4.3	% protein	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Proximates	Valine	4.8	% protein	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Proximates	Valine	4.8	% protein	Feedipedia

Soy	Soybean meal	High oil (expeller)	Proximates	Valine	4.5	% protein	Feedipedia
Soy	Soybeans	All. Includes raw and processed whole soybeans	Proximates	Valine	4.7	% protein	Feedipedia
Soy	Soybeans	Dehulled, Solv. Ext.	Proximates	Valine	5	% protein	Feedipedia
Soy	Soybeans	Toasted	Proximates	Valine	4.7	% protein	Feedipedia
Soy	Soybeans	Extruded	Proximates	Valine	4.8	% protein	Feedipedia
Sunflower	Sunflower screenings		Proximates	Valine	4	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Proximates	Valine	4.9	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Proximates	Valine	4.9	% protein	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Proximates	Valine	5	% protein	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Proximates	Valine	4.8	% protein	Feedipedia
Sunflower	Sunflower seeds		Proximates	Valine	4.5	% protein	Feedipedia

Tomatoes	Tomato oil cake		Proximates	Valine	4.4	% protein	Feedipedia
Nuts, unspecified	Nut oil meal	Walnut (Juglans regia), solvent extraction	Proximates	Valine	3.8	% protein	Feedipedia
Apple	Apple pomace, dried	Dehydrated	Proximates	Valine	4.2	% protein	Feedipedia
Apple	Apple	Whole, fresh	Proximates	Valine	7.2	% protein	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Proximates	Valine	4.6	% protein	Feedipedia
Orange	Orange pulp, dried		Proximates	Valine	3.6	% protein	Feedipedia
Lemon	Lemon pulp, dried	Lemon, dried	Proximates	Valine	2.8	% protein	Feedipedia
Coffee	Coffee pulp, dried	Dehydrated	Proximates	Valine	3.7	% protein	Feedipedia
Coffee	Instant coffee by product		Proximates	Valine	5.7	% protein	Feedipedia
Date	Date palm fruits	Phoenix dactylifera	Proximates	Valine	4.2	% protein	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Proximates	Valine	3.2	% protein	Feedipedia

Date	Date palm, pulp	Pulp from sugar extraction, Phoenix dactylifera	Proximates	Valine	5.7	% protein	Feedipedia
Grape	Grape pomace, dried	Dehydrated	Proximates	Valine	3.6	% protein	Feedipedia
Pineapple	Pineapple canning byproduct, dried	Dehydrated, Ananas comosus	Proximates	Valine	4.3	% protein	Feedipedia
Tomatoes	Tomato	Fruits, fresh	Proximates	Valine	2.9	% protein	Feedipedia
Sugar beet	Sugar beet molasses		Proximates	Valine	1.8	% protein	Feedipedia
Carrot	Carrot	Roots, fresh	Proximates	Valine	5.4	% protein	Feedipedia
Potato	Potato peel	Fresh	Proximates	Valine	2.6	% protein	Feedipedia
Potato	Potato	Tuber, raw	Proximates	Valine	5.1	% protein	Feedipedia
Sugar beet	Sugar beet pulp		Proximates	Valine	6.5	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Proximates	Valine	5	% protein	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Proximates	Valine	6.2	% protein	Feedipedia
Sugar beet	Sugar beet root	Sugar type, fresh	Proximates	Valine	2.7	% protein	Feedipedia
Sugar beet	Sugar beet leaves	Fresh	Proximates	Valine	5.6	% protein	Feedipedia

Potato	Sweet potato, aerial part	Fresh	Proximates	Valine	5.7	% protein	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Proximates	Valine	5.4	% protein	Feedipedia
Potato	Sweet potato leaf protein concentrate		Proximates	Valine	6.2	% protein	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Proximates	Valine	5.3	% protein	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated	Proximates	Valine	6.5	% protein	Feedipedia
Sugar cane	Sugar cane molasses		Proximates	Valine	3.8	% protein	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Proximates	Valine	4.3	% protein	Feedipedia
Date	Date palm pits	Phoenix dactylifera	Proximates	Valine	3.9	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Proximates	Valine	0.5	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From glutamic acid production	Proximates	Valine	0.6	% protein	Feedipedia
Distillery by-products, unspecified	Vinasse	From lysine production	Proximates	Valine	0.3	% protein	Feedipedia

Distillery by-products, unspecified	Vinasse	Sugarcane, liquid	Proximates	Valine	2.3	% protein	Feedipedia
Pork	Hog hair meal	Hydrolysed	Proximates	Valine	5.3	% protein	Feedipedia
Animal by-products, unspecified	Blood meal		Proximates	Valine	8.5	% protein	Feedipedia
Animal by-products, unspecified	Blood meal	Chicken	Proximates	Valine	6.8	% protein	Feedipedia
Animal by-products, unspecified	Bone meal	Raw	Proximates	Valine	3	% protein	Feedipedia
Poultry	Feather meal		Proximates	Valine	7.2	% protein	Feedipedia
Fish, unspecified	Fish meal	High protein	Proximates	Valine	4.9	% protein	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Proximates	Valine	4.9	% protein	Feedipedia
Fish, unspecified	Fish meal	Low protein	Proximates	Valine	5.2	% protein	Feedipedia
Fish, unspecified	Fish protein concentrate		Proximates	Valine	5.6	% protein	Feedipedia
Fish, unspecified	Fish silage	Low oil	Proximates	Valine	4.9	% protein	Feedipedia
Fish, unspecified	Fish solubles, dried	Dehydrated	Proximates	Valine	2.7	% protein	Feedipedia
Frog	Frog meal	Frog waste	Proximates	Valine	4	% protein	Feedipedia

Poultry	Hatchery by product		Proximates	Valine	5	% protein	Feedipedia
Beef	Cattle hoof and horn meal		Proximates	Valine	5.7	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Hydrolysed	Proximates	Valine	2.4	% protein	Feedipedia
Animal by-products, unspecified	Leather meal	Non-hydrolysed	Proximates	Valine	2.8	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Proximates	Valine	6	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Pork	Proximates	Valine	5.8	% protein	Feedipedia
Animal by-products, unspecified	Liver meal	Poultry	Proximates	Valine	5.6	% protein	Feedipedia
Beef	Cattle manure	Fresh	Proximates	Valine	3.4	% protein	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Proximates	Valine	3.6	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Proximates	Valine	4.4	% protein	Feedipedia
Animal by-products, unspecified	Meat and bone meal	Low fat	Proximates	Valine	4.5	% protein	Feedipedia

Poultry	Offal meal	Poultry	Proximates	Valine	5.4	% protein	Feedipedia
Beef	Rumen content	Dehydrated	Proximates	Valine	4	% protein	Feedipedia
Shrimp	Shrimp heads, dried	Ensiled and dehydrated	Proximates	Valine	1.8	% protein	Feedipedia
Shrimp	Shrimp waste, dried	Dehydrated	Proximates	Valine	4.9	% protein	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Proximates	Valine	4.7	% protein	Feedipedia
Snail	Snail meal	With shells	Proximates	Valine	3.6	% protein	Feedipedia
Snail	Snail meal	Without shells	Proximates	Valine	7.3	% protein	Feedipedia
Frog	Tadpole meal, dried	With skin, boiled and dried	Proximates	Valine	3.9	% protein	Feedipedia
Frog	Tadpole meal, dried	With skin, dried	Proximates	Valine	3.9	% protein	Feedipedia
Frog	Tadpole meal, dried	Skinned, dried	Proximates	Valine	3.4	% protein	Feedipedia
Whale	Whale meal		Proximates	Valine	2.8	% protein	Feedipedia
Cheese	Whey, dried	Sweet, dehydrated	Proximates	Valine	5.1	% protein	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Proximates	Valine	4.2	% protein	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Proximates	Valine	4.9	% protein	Feedipedia

Algae	Spiruline	Dried, Arthrospira spp.	Proximates	Valine	6.4	% protein	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Proximates	Valine	5.5	% protein	Feedipedia
Hop	Hops		Proximates	Valine	0.3	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Valine	0.72	mg/g DM	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Valine	0.9	mg/g DM	NOSHAN
Cheese	Cheese	Hard	Proximates	Valine	2.14	mg/g DM	NOSHAN
Cheese	Cheese	Soft	Proximates	Valine	0.45	mg/g DM	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Valine	1.63	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Valine	0.22	mg/g DM	NOSHAN
Barley	Malted barley germs		Proximates	Valine	0.81	mg/g DM	NOSHAN
Mushrooms	Mushrooms		Proximates	Valine	0.63	mg/g DM	NOSHAN
Rape	Rapeseed press cake		Proximates	Valine	0.14	mg/g DM	NOSHAN
Yoghurt	Yoghurt		Proximates	Valine	0.02	mg/g DM	NOSHAN

Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Valine	15.1	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Fish, unspecified	Saltwater fish waste	Commercial	Proximates	Valine	6.42	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Fermented	Proximates	Valine	5.77	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Saltwater fish silage	Acid	Proximates	Valine	4.16	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Fish, unspecified	Freshwater fish waste	Commercial	Proximates	Valine	5.95	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Fermented	Proximates	Valine	5.83	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Fish, unspecified	Freshwater fish silage	Acid	Proximates	Valine	3.92	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia filleting residue		Proximates	Valine	6.62	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Tilapia	Tilapia residue silage	Fermented	Proximates	Valine	5.06	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials

Tilapia	Tilapia residue silage	Acid	Proximates	Valine	4.31	g/100g crude protein	Amino acid composition of processed fish silage using different raw materials
Chicory	Chicory leaf	Chicory forage, collected at leafy stage in late summer	Proximates	Valine	17.1	g/kg DM	Nutritive value of plantain and chicory for pigs
Plantain	Plantain banana leaves	Plantain forage, collected at leafy stage in late summer	Proximates	Valine	9.2	g/kg DM	Nutritive value of plantain and chicory for pigs
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Valine	147.84	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Milk	Milk	Granadina goats, Spain	Proximates	Valine	210.23	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Bakery	Bakery and viennoiserie by products		Proximates	Valine	4.5	g/16g N	Feedipedia
Poultry	Hatchery waste		Inorganics	Vanadium	<0.5	mg/kg	Composition of Australian meat chicken hatchery waste
Apple	Apple pomace		Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Orange	Orange peel	Orange	Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Cheese	Whey	Milk	Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Hop	Hops		Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Apple	Apple cake		Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Vanadium	0.06	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN

Cheese	Cheese	Hard	Inorganics	Vanadium	0.03	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Vanadium	0.39	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Vanadium	1.44	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Vanadium	0.56	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Vanadium	0.28	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Vanadium	3.19	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Vanadium	0.31	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Vanadium	0.09	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Vanadium	0.84	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Vanadium	<0.01	ppm d.b.	NOSHAN

Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Vanadium	0.4	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Vanadium	3.2	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Vanadium	2.4	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Vanadium	0.3	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Vanadium	13.9	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Vanadium	18.5	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Vanadium	2.1	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Vanadium	0.4	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Vanadium	11	mg/kg DM	ECN Phyllis 2

Carrot	Carrot		Proximates	Verbascose	nd	g/kg DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Apple	Apple pomace		Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Orange	Orange peel	Orange	Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Cheese	Whey	Milk	Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Hop	Hops		Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Apple	Apple cake		Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Cabbage	Cabbage		Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Cheese	Cheese	Hard	Vitamins	Vitamin A	11650.49	IU/kg	NOSHAN
Cheese	Cheese	Soft	Vitamins	Vitamin A	18562.87	IU/kg	NOSHAN
Cheese	Cheese	Soft and hard	Vitamins	Vitamin A	16880.34	IU/kg	NOSHAN
Grape	Grape pomace		Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Barley	Malted barley germs		Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Mushrooms	Mushrooms		Vitamins	Vitamin A	<1000	IU/kg	NOSHAN

Olive	Olive pomace		Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Onion	Onion hulls		Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Onion	Onion	Slices, fresh	Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Rape	Rapeseed press cake		Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Cabbage	Cabbage	Sour	Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Apple	Apple	Whole	Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Pears	Pear	Whole	Vitamins	Vitamin A	<1000	IU/kg	NOSHAN
Yoghurt	Yoghurt		Vitamins	Vitamin A	6720	IU/kg	NOSHAN
Citrus, unspecified	Citrus pulp, dried		Vitamins	Vitamin A	400	IU/kg DM	Citrus by-products as ruminant feeds: A review
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Vitamin B12	0.0	µg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Vitamin B6	0.05	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Vitamin C	26	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Apple	Apple pomace, dried	Powder	Vitamins	Vitamin C	18.5	mg/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Vitamins	Vitamin C	35.15	mg/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Vitamins	Vitamin C	37	mg/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Vitamins	Vitamin C	25.9	mg/100g	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder	Vitamins	Vitamin C	19.26	mg/100g DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Vitamins	Vitamin C	36.8	mg/100g DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Vitamins	Vitamin C	38.7	mg/100g DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Vitamins	Vitamin C	26.88	mg/100g DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder	Vitamins	Vitamin C	192.6	mg/kg DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Vitamins	Vitamin C	368	mg/kg DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Candida	Vitamins	Vitamin C	387	mg/kg DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Vitamins	Vitamin C	268.8	mg/kg DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Carrot	Carrot	Daucus carota	Vitamins	Vitamin C	300-700	mg/kg DM	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot	Cull carrots	Vitamins	Vitamin C	200-1000	mg/kg DM	Vegetable waste as animal feed paper

Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Vitamin D	0.0	µg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Vitamins	Vitamin E	Tr	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Apple	Apple pomace		Vitamins	Vitamin E	194.68	mg tocopherol acetate/kg	NOSHAN
Orange	Orange peel	Orange	Vitamins	Vitamin E	782.79	mg tocopherol acetate/kg	NOSHAN
Cheese	Whey	Milk	Vitamins	Vitamin E	56.9	mg tocopherol acetate/kg	NOSHAN
Hop	Hops		Vitamins	Vitamin E	8.77	mg tocopherol acetate/kg	NOSHAN
Apple	Apple cake		Vitamins	Vitamin E	36.87	mg tocopherol acetate/kg	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Vitamins	Vitamin E	1310	mg tocopherol acetate/kg	NOSHAN

Brewer's yeast/grains, unspecified	Brewing cake		Vitamins	Vitamin E	152.18	mg tocopherol acetate/kg	NOSHAN
Cabbage	Cabbage		Vitamins	Vitamin E	<1	mg tocopherol acetate/kg	NOSHAN
Cheese	Cheese	Hard	Vitamins	Vitamin E	43	mg tocopherol acetate/kg	NOSHAN
Cheese	Cheese	Soft	Vitamins	Vitamin E	17.56	mg tocopherol acetate/kg	NOSHAN
Cheese	Cheese	Soft and hard	Vitamins	Vitamin E	536.32	mg tocopherol acetate/kg	NOSHAN
Grape	Grape pomace		Vitamins	Vitamin E	273.43	mg tocopherol acetate/kg	NOSHAN
Barley	Malted barley germs		Vitamins	Vitamin E	122.84	mg tocopherol acetate/kg	NOSHAN
Barley	Malted barley germs		Vitamins	Vitamin E	108.79	mg tocopherol acetate/kg	NOSHAN
Mushrooms	Mushrooms		Vitamins	Vitamin E	2.74	mg tocopherol acetate/kg	NOSHAN
Olive	Olive pomace		Vitamins	Vitamin E	78.72	mg tocopherol acetate/kg	NOSHAN
Onion	Onion hulls		Vitamins	Vitamin E	6.22	mg tocopherol acetate/kg	NOSHAN
Onion	Onion	Slices, fresh	Vitamins	Vitamin E	3.36	mg tocopherol acetate/kg	NOSHAN
Rape	Rapeseed press cake		Vitamins	Vitamin E	4.86	mg tocopherol acetate/kg	NOSHAN

Cabbage	Cabbage	Sour	Vitamins	Vitamin E	113.95	mg tocopherol acetate/kg	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Vitamins	Vitamin E	50.16	mg tocopherol acetate/kg	NOSHAN
Tomatoes	Tomato skin		Vitamins	Vitamin E	917.87	mg tocopherol acetate/kg	NOSHAN
Apple	Apple	Whole	Vitamins	Vitamin E	15.61	mg tocopherol acetate/kg	NOSHAN
Pears	Pear	Whole	Vitamins	Vitamin E	5.62	mg tocopherol acetate/kg	NOSHAN
Yoghurt	Yoghurt		Vitamins	Vitamin E	4.2	mg tocopherol acetate/kg	NOSHAN
Apple	Apple pomace		Waste compounds	Volatile content	88.07	% d.b.	NOSHAN
Orange	Orange peel	Orange	Waste compounds	Volatile content	88.16	% d.b.	NOSHAN
Cheese	Whey	Milk	Waste compounds	Volatile content	82.8	% d.b.	NOSHAN
Hop	Hops		Waste compounds	Volatile content	83.15	% d.b.	NOSHAN
Apple	Apple cake		Waste compounds	Volatile content	86.42	% d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Waste compounds	Volatile content	82.3	% d.b.	NOSHAN
Cabbage	Cabbage		Waste compounds	Volatile content	75.38	% d.b.	NOSHAN

Cheese	Cheese	Hard	Waste compounds	Volatile content	93.35	% d.b.	NOSHAN
Cheese	Cheese	Soft	Waste compounds	Volatile content	94.65	% d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Waste compounds	Volatile content	96.87	% d.b.	NOSHAN
Grape	Grape pomace		Waste compounds	Volatile content	79.97	% d.b.	NOSHAN
Barley	Malted barley germs		Waste compounds	Volatile content	82.83	% d.b.	NOSHAN
Mushrooms	Mushrooms		Waste compounds	Volatile content	89.07	% d.b.	NOSHAN
Olive	Olive pomace		Waste compounds	Volatile content	86	% d.b.	NOSHAN
Onion	Onion hulls		Waste compounds	Volatile content	87.28	% d.b.	NOSHAN
Onion	Onion	Slices, fresh	Waste compounds	Volatile content	80.7	% d.b.	NOSHAN
Potato	Potato	Selected	Waste compounds	Volatile content	92.83	% d.b.	NOSHAN
Potato	Potato skin		Waste compounds	Volatile content	91.19	% d.b.	NOSHAN
Rape	Rapeseed press cake		Waste compounds	Volatile content	81.49	% d.b.	NOSHAN
Cabbage	Cabbage	Sour	Waste compounds	Volatile content	79.36	% d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Waste compounds	Volatile content	80.51	% d.b.	NOSHAN

Tomatoes	Tomato skin		Waste compounds	Volatile content	87.79	% d.b.	NOSHAN
Apple	Apple	Whole	Waste compounds	Volatile content	82.37	% d.b.	NOSHAN
Pears	Pear	Whole	Waste compounds	Volatile content	85.49	% d.b.	NOSHAN
Yoghurt	Yoghurt		Waste compounds	Volatile content	90.68	% d.b.	NOSHAN
Rice	Rice husk	Variety: Lemont LG	Waste compounds	Volatile content	66.4	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravimetric analysis
Rice	Rice husk	Variety: ROK 14	Waste compounds	Volatile content	67.3	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravimetric analysis
Rice	Rice husk	Variety: CP4	Waste compounds	Volatile content	63	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravimetric analysis

Rice	Rice husk	Variety: Pa Potho	Waste compounds	Volatile content	67.6	% d.b.	Determination of kinetic parameters of rice husks in oxygen using thermogravim etric analysis
Nuts, unspecified	Nut shells	Cashew	Waste compounds	Volatile matter	69.31	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shells	Cashew, de-oiled	Waste compounds	Volatile matter	58	%	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Olive	Olive husk		Waste compounds	Volatile matter	64.77	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Waste compounds	Volatile matter	66.9	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura

Olive	Olive husk		Waste compounds	Volatile matter	76	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive husk		Waste compounds	Volatile matter	82	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Olive	Olive mill wastewater		Waste compounds	Volatile matter	78.17	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Grape	Grape waste		Waste compounds	Volatile matter	62.51	%	Waste-to-energy possiblities for industrial olive and grape by-products in Extremadura
Coconut	Char from coconut shell	Char produced at 750°C	Waste compounds	Volatile matter	9.93	%	ECN Phyllis 2

Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Waste compounds	Volatile matter	15.4	%	ECN Phyllis 2
Grapefruit	Grapefruit skin char	GrapefuitChar produced at 700°C from grapefruit skin	Waste compounds	Volatile matter	13.6	%	ECN Phyllis 2
Poultry	Pyrolysis char from skimmings poultry processing	600°C pyrolysis	Waste compounds	Volatile matter	10.07	%	ECN Phyllis 2
Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Waste compounds	Volatile matter	9.87	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	Volatile matter	12.68	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at T = 623 K; S-Co2 = 305 m2/g	Waste compounds	Volatile matter	44.32	%	ECN Phyllis 2
Olive	Char from olive pits	Char from olive stones at 873 K; S-N2 = 85 m2/g, S-CO2 = 548 m2/g	Waste compounds	Volatile matter	22.8	%	ECN Phyllis 2

Olive	Char from olive pits	Char from olive stones at T = 1123 K; S-CO2 = 737 m2/g	Waste compounds	Volatile matter	22.14	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 350°C	Waste compounds	Volatile matter	55.2	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 600°C	Waste compounds	Volatile matter	41	%	ECN Phyllis 2
Peanuts	Char from peanut shells	Char produced at 850°C	Waste compounds	Volatile matter	38.8	%	ECN Phyllis 2
Straw	Straw		Waste compounds	Volatile matter	75.92	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Waste compounds	Volatile matter	26.17	%	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Waste compounds	Volatile matter	8.09	%	ECN Phyllis 2
Wheat	Char from wheat straw	Char from fluid bed gasifier	Waste compounds	Volatile matter	15.23	%	ECN Phyllis 2

Sugar cane	Sugar cane leaves	Higher heating value given as 16.000-17600 kJ/kg; in Biomass and Bioenergy 13 (1997) 141-146 it is given as 17.430 kJ/kg. The higher value may apply to dry ash-free material.	Waste compounds	Volatile matter	51.86	%	ECN Phyllis 2
Aubergine	Aubergine plant		Waste compounds	Volatile matter	11.60	%	ECN Phyllis 2
Bean	Bean plant		Waste compounds	Volatile matter	10.38	%	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Waste compounds	Volatile matter	70.56	%	ECN Phyllis 2
Courgette	Courgette plant		Waste compounds	Volatile matter	4.32	%	ECN Phyllis 2
Cucumber	Cucumber plant		Waste compounds	Volatile matter	6.56	%	ECN Phyllis 2

Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Waste compounds	Volatile matter	5.32	%	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Waste compounds	Volatile matter	13.27	%	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Waste compounds	Volatile matter	6.91	%	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Waste compounds	Volatile matter	6.12	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Waste compounds	Volatile matter	67.22	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Waste compounds	Volatile matter	71.33	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Waste compounds	Volatile matter	70.13	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Waste compounds	Volatile matter	72.45	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Waste compounds	Volatile matter	73.45	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Almond. Extractive matter (alcohol/benzene 1/1) 2.7%; cellulose etc. extractive-free	Waste compounds	Volatile matter	74	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Waste compounds	Volatile matter	69.99	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Waste compounds	Volatile matter	68.99	%	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Waste compounds	Volatile matter	70.73	%	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Waste compounds	Volatile matter	58.71	%	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Waste compounds	Volatile matter	65.21	%	ECN Phyllis 2
Cacao/cocoa	Cacao hulls		Waste compounds	Volatile matter	67.95	%	ECN Phyllis 2
Coconut	Coconut fibre		Waste compounds	Volatile matter	69.6	%	ECN Phyllis 2

Coconut	Coconut shell	Coconuts shells from Madal, Mozambique	Waste compounds	Volatile matter	71.84	%	ECN Phyllis 2
Coconut	Coconut shell		Waste compounds	Volatile matter	81.8	%	ECN Phyllis 2
Coconut	Coconut shell		Waste compounds	Volatile matter	77.19	%	ECN Phyllis 2
Coconut	Coconut shell		Waste compounds	Volatile matter	67.4	%	ECN Phyllis 2
Coconut	Coconut fibre dust	Coir. Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Waste compounds	Volatile matter	70.3	%	ECN Phyllis 2
Coconut	Coconut fibre dust	Devolatilisation occurs between 330 and 600°C, maximum rate at 350°C	Waste compounds	Volatile matter	66.58	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 1, samples from Trabzon, Turkey	Waste compounds	Volatile matter	63.74	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 2, samples from Trabzon, Turkey	Waste compounds	Volatile matter	62.59	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 3, samples from Trabzon, Turkey	Waste compounds	Volatile matter	63.9	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 4, samples from Trabzon, Turkey	Waste compounds	Volatile matter	60.54	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Extractive matter (alcohol/benzene 1/1) 3.3%; cellulose etc. extractive-free	Waste compounds	Volatile matter	70.3	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Waste compounds	Volatile matter	67.91	%	ECN Phyllis 2
Olive	Olive cake		Waste compounds	Volatile matter	66.27	%	ECN Phyllis 2

Olive	Olive husk	Extractive matter (alcohol/benzen 1/1) 9.4%; cellulose etc. extractive-free	Waste compounds	Volatile matter	63.9	%	ECN Phyllis 2
Olive	Olive husk	Ash type: 815°C	Waste compounds	Volatile matter	61.1	%	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Waste compounds	Volatile matter	77.01	%	ECN Phyllis 2
Olive	Olive pits		Waste compounds	Volatile matter	78.64	%	ECN Phyllis 2
Olive	Olive pits		Waste compounds	Volatile matter	75.6	%	ECN Phyllis 2
Olive	Olive pits	S-N2 = 0,6 m2/g; S-CO2 = 53 m2/g; see for char 1825, 1826 and 1827	Waste compounds	Volatile matter	74.84	%	ECN Phyllis 2
Olive	Olive residue	Oily refuse from olive processing	Waste compounds	Volatile matter	67.53	%	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Waste compounds	Volatile matter	65.7	%	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Waste compounds	Volatile matter	62.97	%	ECN Phyllis 2
Olive	Olive waste	Country: Spain	Waste compounds	Volatile matter	60.59	%	ECN Phyllis 2
Olive	Olive husk	Exhausted	Waste compounds	Volatile matter	89.14	%	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Waste compounds	Volatile matter	71.08	%	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Waste compounds	Volatile matter	73.3	%	ECN Phyllis 2
Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Waste compounds	Volatile matter	68.04	%	ECN Phyllis 2

Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Waste compounds	Volatile matter	72.17	%	ECN Phyllis 2
Olive	Orujillo	Wood matter from pressed oil stone	Waste compounds	Volatile matter	66.9	%	ECN Phyllis 2
Cherry	Cherry pits		Waste compounds	Volatile matter	84.2	%	ECN Phyllis 2
Cherry	Cherry pits		Waste compounds	Volatile matter	77.08	%	ECN Phyllis 2
Coffee	Coffee husk		Waste compounds	Volatile matter	57.24	%	ECN Phyllis 2
Peach	Peach pits		Waste compounds	Volatile matter	79.12	%	ECN Phyllis 2
Peach	Peach pits		Waste compounds	Volatile matter	79.1	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Waste compounds	Volatile matter	75.49	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Waste compounds	Volatile matter	75.48	%	ECN Phyllis 2

Nuts, unspecified	Nut shells	Pistachio	Waste compounds	Volatile matter	82.03	%	ECN Phyllis 2
Prunes	Prune pits		Waste compounds	Volatile matter	53.65	%	ECN Phyllis 2
Prunes	Prune pits		Waste compounds	Volatile matter	76.99	%	ECN Phyllis 2
Apricot	Apricot stones	Apricot stones as waste product of canning industry, Bulgaria	Waste compounds	Volatile matter	75.25	%	ECN Phyllis 2
Babassu	Babassu husks		Waste compounds	Volatile matter	79.71	%	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Waste compounds	Volatile matter	68.7	%	ECN Phyllis 2
Grape	Grape seeds		Waste compounds	Volatile matter	69.58	%	ECN Phyllis 2
Lemon	Lemon pellets	Lemon. Ash type: 815°C	Waste compounds	Volatile matter	71.76	%	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia	Waste compounds	Volatile matter	75.92	%	ECN Phyllis 2
Mustard	Mustard husk		Waste compounds	Volatile matter	64.76	%	ECN Phyllis 2

Rice	Rice husk	Before soaking pre-treatment	Waste compounds	Volatile matter	60.55	% d.b.	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk, dried	Soaked rice husks, dried	Waste compounds	Volatile matter	70.47	% d.b.	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Sugar by-products, unspecified	Bagasse		Waste compounds	Volatile matter	79.8	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Waste compounds	Volatile matter	83.3	% d.b.	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Sugar cane	Sugar cane bagasse		Waste compounds	Volatile matter	71.6	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Sugar cane	Sugar cane bagasse		Waste compounds	Volatile matter	81.5	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations
Cotton	Cotton stalk		Waste compounds	Volatile matter	76.1	% d.b.	Char oxidation study of sugar cane bagasse, cotton stalk and Pakistani coal under 1% and 3% oxygen concentrations

Rice	Rice husk	Raw	Waste compounds	Volatile matter	67.9	% d.b.	Development of photoluminescent glass derived from rice husk
Wheat	Wheat straw	1218 fully ripe wheat straw samples collected in China	Waste compounds	Volatile matter	68.64	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rice	Rice straw	1733 fully ripe rice straw samples collected in China	Waste compounds	Volatile matter	66.73	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Rape	Rape straw	490 fully ripe rape straw samples collected in China	Waste compounds	Volatile matter	72.90	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations

Cotton	Cotton stalk	250 fully ripe cotton stalk samples collected in China	Waste compounds	Volatile matter	71.67	% DM	Agrocycle D1.5 Report on the main agricultural value chains in China and corresponding regulations
Beef	Paunch		Waste compounds	Volatile solids	92.7	%	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Dissolved air flotation sludge		Waste compounds	Volatile solids	81.9	%	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland

Beef	Soft offal		Waste compounds	Volatile solids	98.6	%	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Beef	Mixture of paunch, dissolved air flotation sludge and soft offal at annual production ratios		Waste compounds	Volatile solids	96.7	%	Biogas from cattle slaughterhouse waste: Energy recovery towards an energy self-sufficient industry in Ireland
Cheese	Whey	Cheese	Waste compounds	Volatile solids	61550	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration

Cheese	Whey	Cheese	Waste compounds	Volatile solids	24930	mg/l	Amelioration of lactic acid production from cheese whey using micro-aeration
Sugar by-products, unspecified	Wastewater	1h settled	Waste compounds	Volatile solids	335	mg/l	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters
Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Volatile solids	660-5250	mg/l	Waste treatment and by-products: The Science of poultry and meat processing
Abattoir wastes, unspecified	Abattoir waste water		Waste compounds	Volatile solids	1960	mg/l	Waste treatment and by-products: The Science of poultry and meat processing

Sunflower	Sunflower oil cake		Waste compounds	Volatile solids	93.4	% DM	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake
Beef	Cattle manure	Slurry	Waste compounds	Volatile solids	6.52	%	Co-digestion of source segregated domestic food waste to improve process stability
Beef	Cattle manure	Slurry	Waste compounds	Volatile solids	70.0	% total solids	Co-digestion of source segregated domestic food waste to improve process stability

Food, unspecified	Food leftovers	Domestic food waste (UK)	Waste compounds	Volatile solids	21.71	%	Co-digestion of source segregated domestic food waste to improve process stability
Food, unspecified	Food leftovers	Domestic food waste (UK)	Waste compounds	Volatile solids	91.44	% total solids	Co-digestion of source segregated domestic food waste to improve process stability
Food, unspecified	Food leftovers	Source separated food waste	Waste compounds	Volatile solids	91.4	% total solids	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment

Beef	Cattle manure	Slurry	Waste compounds	Volatile solids	70.0	% total solids	Energetic and environmental benefits of co-digestion of food waste and cattle slurry: A preliminary assessment
Food, unspecified	Food leftovers	Domestic food waste (UK)	Waste compounds	Volatile solids	21.71	%	Trace element requirements for stable food waste digestion at elevated ammonia concentrations
Food, unspecified	Food leftovers	Domestic food waste (UK)	Waste compounds	Volatile solids	91.44	% total solids	Trace element requirements for stable food waste digestion at elevated ammonia concentrations
Sunflower	Sunflower oil cake	By-product. Helianthus annuus (seed)	Waste compounds	Volatile solids content	93.4	% DM	Cropgen database

Sunflower	Sunflower oil cake	Helianthus annuus (seed), harvest time: summer, growth stage at harvest: seed ripening	Waste compounds	Volatile solids content	93.4	% DM	Cropgen database
Sugar by-products, unspecified	Bagasse		Waste compounds	Volatile solids content	93.7	% DM	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Banana	Banana	Musa paradisiaca, growth stage at harvest: peeling	Waste compounds	Volatile solids content	83.8	% total solids	Cropgen database
Banana	Banana peel	Musa paradisiaca, fresh riped fruit	Waste compounds	Volatile solids content	91	% total solids	Cropgen database
Cabbage	Cabbage	Brassica oleracea var Capitata. Growth stage at harvest: leaves	Waste compounds	Volatile solids content	91.2	% total solids	Cropgen database

Cabbage	Cabbage	Brassica oleracea var Capitata. Growth stage at harvest: stem	Waste compounds	Volatile solids content	91.8	% total solids	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: leaves	Waste compounds	Volatile solids content	93.1	% total solids	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: petiole	Waste compounds	Volatile solids content	91.3	% total solids	Cropgen database
Carrot	Carrot	Harvest time: September, growth stage at time of harvest: fully grown	Waste compounds	Volatile solids content	0.9	% total solids	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Waste compounds	Volatile solids content	84.3	% total solids	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Waste compounds	Volatile solids content	82	% total solids	Cropgen database

Cauliflower	Cauliflower stem	Brassica Oleracea var. Botrytis	Waste compounds	Volatile solids content	87.1	% total solids	Cropgen database
Cauliflower	Cauliflower leaves	Brassica Oleracea var. Botrytis	Waste compounds	Volatile solids content	83	% total solids	Cropgen database
Grape	Grape vine	Vitis vinifera, growth stage: pressings	Waste compounds	Volatile solids content	93.2	% total solids	Cropgen database
Grape	Grape vine	Vitis vinifera, growth stage: peduncle (stalk of grape bunch)	Waste compounds	Volatile solids content	88.9	% total solids	Cropgen database
Lemon	Lemon	Citrus limon, growth stage: pressings	Waste compounds	Volatile solids content	96.8	% total solids	Cropgen database
Orange	Orange peel	Mandarin, loose skinned. Citrus reticulata, growth stage at harvest: fresh riped fruits - peels	Waste compounds	Volatile solids content	97.3	% total solids	Cropgen database

Orange	Orange pressings	Mandarin, loose skinned. Citrus reticulata, growth stage at harvest: fresh riped fruits - pressings	Waste compounds	Volatile solids content	97.4	% total solids	Cropgen database
Orange	Orange	Whole rotten fruit, loose skinned. Citrus reticulata, growth stage at harvest: whole rotten fruit	Waste compounds	Volatile solids content	89	% total solids	Cropgen database
Orange	Orange seeds	Mandarin, loose skinned. Citrus reticulata, growth stage at harvest: seeds	Waste compounds	Volatile solids content	94.7	% total solids	Cropgen database
Onion	Onion	Allium cepa, growth stage at harvest: exterior peels	Waste compounds	Volatile solids content	88.2	% total solids	Cropgen database

Pineapple	Pineapple peels	Ananans sativus, growth stage at harvest: peels	Waste compounds	Volatile solids content	93.2	% total solids	Cropgen database
Pineapple	Pineapple leafy shoot	Ananans sativus, growth stage at harvest: leafy shoot	Waste compounds	Volatile solids content	94.6	% total solids	Cropgen database
Potato	Potato peel	Solanum tuberosum, growth stage at harvest: peels	Waste compounds	Volatile solids content	90.9	% total solids	Cropgen database
Rape	Rape	Brassica napus, growth stage: tops	Waste compounds	Volatile solids content	78	% total solids	Cropgen database
Rape	Rapeseed	Usual harvest time for animal food	Waste compounds	Volatile solids content	90.62	% total solids	Cropgen database
Rape	Rapeseed straw	Brassica rapa spp. Oleifera	Waste compounds	Volatile solids content	82.5	% total solids	Cropgen database
Sugar beet	Sugar beet	Beta vulgaris	Waste compounds	Volatile solids content	81	% total solids	Cropgen database
Sugar beet	Sugar beet tops	Beta vulgaris, harvest time: October	Waste compounds	Volatile solids content	9.2	% total solids	Cropgen database

Sugar beet	Sugar beet tops	Beta vulgaris, harvest time: October	Waste compounds	Volatile solids content	7.2	% total solids	Cropgen database
Orange	Orange peel	Orange, sweet, tight skinned. Citrus sinensis, growth stage at harvest: peels	Waste compounds	Volatile solids content	94.7	% total solids	Cropgen database
Orange	Orange pressings	Orange, sweet, tight skinned. Citrus sinensis, growth stage at harvest: pressings	Waste compounds	Volatile solids content	92.3	% total solids	Cropgen database
Tomatoes	Tomato	Whole, rotten. Lycopersicon esculentum var. Pyriforme	Waste compounds	Volatile solids content	92.5	% total solids	Cropgen database
Tomatoes	Tomato	Whole, rotten. Lycopersicon esculentum var. Commune	Waste compounds	Volatile solids content	98.1	% total solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: pasty	Waste compounds	Volatile solids content	97.91	% total solids	Cropgen database

Wheat	Wheat	Growth stage at harvest: milky	Waste compounds	Volatile solids content	97.91	% total solids	Cropgen database
Wheat	Wheat	Growth stage at harvest: flowering	Waste compounds	Volatile solids content	97.91	% total solids	Cropgen database
Wheat	Wheat	Triticum aestivum, growth stage at harvest: straw	Waste compounds	Volatile solids content	89.9	% total solids	Cropgen database
Cabbage	Cabbage leaves	White. Brassica oleracea var. capitata	Waste compounds	Volatile solids content	78	% total solids	Cropgen database
Beef	Solid cattle slaughterhouse wastes		Waste compounds	Volatile solids content	95	% total solids	Anaerobic co-digestion of solid slaughterhouse wastes with agro-residues: Synergistic and antagonistic interactions determined in batch digestion assays

Apple	Apple		Waste compounds	Volatile solids content	0.979	g volatile solids/g total solids	Cropgen database
Banana	Banana		Waste compounds	Volatile solids content	0.852	g volatile solids/g total solids	Cropgen database
Carrot	Carrot		Waste compounds	Volatile solids content	0.899	g volatile solids/g total solids	Cropgen database
Orange	Orange		Waste compounds	Volatile solids content	0.964	g volatile solids/g total solids	Cropgen database
Potato	Potato		Waste compounds	Volatile solids content	0.937	g volatile solids/g total solids	Cropgen database
Carrot	Carrot	Daucus carota, growth stage at harvest: vegetative stage+root	Waste compounds	Volatile solids content	0.09	g volatile solids/g total solids	Cropgen database
Distillers grain	Grain, mash		Waste compounds	Volatile solids content	0.065	g volatile solids/g total solids	Cropgen database
Distillers grain	Grain, strip waste		Waste compounds	Volatile solids content	0.83	g volatile solids/g total solids	Cropgen database

Grape	Grape marc	<1mm grinded	Waste compounds	Volatile solids content	0.12218	g volatile solids/g total solids	Cropgen database
Coffee	Malt coffee marc		Waste compounds	Volatile solids content	0.205936	g volatile solids/g total solids	Cropgen database
Fruit and vegetables, unspecified	Market waste, fruit and vegetables	Mesophilic	Waste compounds	Volatile solids content	0.27	g volatile solids/g total solids	Cropgen database
Fruit and vegetables, unspecified	Market waste, fruit and vegetables	Thermophilic	Waste compounds	Volatile solids content	0.27	g volatile solids/g total solids	Cropgen database
Rape	Oil seed rape	Brassica napus, growth stage at harvest: reproductive stage (pod filled)	Waste compounds	Volatile solids content	0.2433844	g volatile solids/g total solids	Cropgen database
Potato	Potato	Harvest time: July-Sept	Waste compounds	Volatile solids content	0.93	g volatile solids/g total solids	Cropgen database
Potato	Potato amniotic fluid (starch production)		Waste compounds	Volatile solids content	0.022015	g volatile solids/g total solids	Cropgen database
Potato	Potato mash	Starch production	Waste compounds	Volatile solids content	0.039997	g volatile solids/g total solids	Cropgen database

Potato	Potato process water	Starch production	Waste compounds	Volatile solids content	0.013008	g volatile solids/g total solids	Cropgen database
Potato	Potato pulp		Waste compounds	Volatile solids content	0.17993	g volatile solids/g total solids	Cropgen database
Potato	Potato	Shredder	Waste compounds	Volatile solids content	0.185322	g volatile solids/g total solids	Cropgen database
Rape	Rape cake	Pressed cold	Waste compounds	Volatile solids content	0.18204	g volatile solids/g total solids	Cropgen database
Rape	Rape FM		Waste compounds	Volatile solids content	0.34804	g volatile solids/g total solids	Cropgen database
Sugar beet	Sugar beet		Waste compounds	Volatile solids content	0.1872	g volatile solids/g total solids	Cropgen database
Sugar beet	Sugar beet leaves	Silage	Waste compounds	Volatile solids content	0.172224	g volatile solids/g total solids	Cropgen database
Sugar beet	Sugar beet leaves	Fresh	Waste compounds	Volatile solids content	0.132492	g volatile solids/g total solids	Cropgen database

Sunflower	Sunflower	Maturity Index [Maize/DM Yield per ha]: /55,5, XP [%] 7.11, XF [%DM] 58.89, Nfe [%DM] 15.29, ME [Mj/kg] 8.5	Waste compounds	Volatile solids content	0.3068523	g volatile solids/g total solids	Cropgen database
Wheat	Wheat grain		Waste compounds	Volatile solids content	0.84868	g volatile solids/g total solids	Cropgen database
Wheat	Wheat straw		Waste compounds	Volatile solids content	0.828036	g volatile solids/g total solids	Cropgen database
Sugar beet	Sugar beet tops	Residual	Waste compounds	Volatile solids content	9.9	%ww	Cropgen database
Animal by-products, unspecified	Greaves		Waste compounds	Volatile solids content	86	%ww	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments

Animal by-products, unspecified	Rinds		Waste compounds	Volatile solids content	65	%	Anaerobic biodegradablity of meat-processing wastes: effect of physical, chemical and enzymatic pre-treatments
Sunflower	Sunflower extracted bagasse		Waste compounds	Volatiles	78.4	%	Characterization of the pyrolysis oil produced in the slow pyrolysis of sunflower-extracted bagasse
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Proximates	Water	86.6	g/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Apple	Apple pomace		Proximates	Water	9.79	g/100g	NOSHAN
Orange	Orange peel	Orange	Proximates	Water	77.67	g/100g	NOSHAN
Cheese	Whey	Milk	Proximates	Water	92.69	g/100g	NOSHAN

Palm	Palm kernel cake		Proximates	Water	5.7	g/100g	Bio-processing of agro-byproducts to animal feed
Palm	Palm press fibre		Proximates	Water	13.8	g/100g	Bio-processing of agro-byproducts to animal feed
Hop	Hops		Proximates	Water	12.86	g/100g	NOSHAN
Brewer's yeast/grains, unspecified	Brewer's grains		Proximates	Water	9.8-10.8	g/100g	N/A
Grape	Grape pomace, dried	Air dried	Proximates	Water	2.32	g/100g	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Grape	Grape pomace, dried	Accelerated air dried	Proximates	Water	2.31	g/100g	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Grape	Grape pomace	Untreated	Proximates	Water	59.5	g/100g	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts

Rice	Rice husk	Before soaking pre-treatment	Proximates	Water	12.08	g/100g	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk
Rice	Rice husk, dried	Soaked rice husks, dried	Proximates	Water	2.03	g/100g	A detailed study of the effects of pyrolysis temperature and feedstock particle size on the preparation of nanosilica from rice husk

Sugar by-products, unspecified	Bagasse		Proximates	Water	50	g/100g	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar by-products, unspecified	Trash		Proximates	Water	15	g/100g	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Sugar beet	Pressed beet-pulp		Proximates	Water	85	g/100g	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters

Grape	Grape marc		Proximates	Water	59.3	g/100g	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape stalks		Proximates	Water	68.9	g/100g	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape peels		Proximates	Water	60.9	g/100g	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Grape	Grape seeds		Proximates	Water	48.6	g/100g	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape oil cake		Proximates	Water	3.6	g/100g	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery
Grape	Grape meal	Extraction meal	Proximates	Water	14.2	g/100g	Analysis of the characteristics of the residues of the wine production chain finalized to their industrial and energy recovery

Tomatoes	Tomato peel		Proximates	Water	5.4	g/100g	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato seed		Proximates	Water	5.4	g/100g	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato cake		Proximates	Water	3.7	g/100g	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Tomatoes	Tomato meal		Proximates	Water	3	g/100g	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues, dried	Dry	Proximates	Water	7.2	g/100g	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery
Tomatoes	Tomato residues	Wet	Proximates	Water	73.1	g/100g	Analysis of the characteristics of the tomato manufacturing residues finalized to the energy recovery

Sunflower	Sunflower oil cake		Proximates	Water	8	g/100g	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake
Nuts, unspecified	Nut shells	Cashew	Proximates	Water	10.43	g/100g	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 150°C and the oil collected separately	Proximates	Water	3.5	g/100g	Bio-oil from pyrolysis of cashew nut shell - a near fuel

Nuts, unspecified	Nut shell oil	Cashew nut shell used for pyrolysis and subjected to 500°C (maxium bio-oil yield) and the oil collected separately	Proximates	Water	3	g/100g	Bio-oil from pyrolysis of cashew nut shell - a near fuel
Grape	Grape pomace	Fresh. Agiorgitiko	Proximates	Water	59.5	g/100g	A comparative study on different extraction techniques to recover red grape pomace polyphenols from vinification byproducts
Apple	Apple cake		Proximates	Water	81.46	g/100g	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Proximates	Water	83.33	g/100g	NOSHAN
Brewer's yeast/grains, unspecified	Brewing cake		Proximates	Water	6.19	g/100g	NOSHAN
Cabbage	Cabbage		Proximates	Water	89.67	g/100g	NOSHAN
Cheese	Cheese	Hard	Proximates	Water	19.16	g/100g	NOSHAN

Cheese	Cheese	Soft	Proximates	Water	41.89	g/100g	NOSHAN
Cheese	Cheese	Soft and hard	Proximates	Water	24.42	g/100g	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Water	92.6	g/100g	NOSHAN
Grape	Grape pomace		Proximates	Water	58.04	g/100g	NOSHAN
Barley	Malted barley germs		Proximates	Water	3.76	g/100g	NOSHAN
Barley	Malted barley germs		Proximates	Water	4.4	g/100g	NOSHAN
Mushrooms	Mushrooms		Proximates	Water	93.2	g/100g	NOSHAN
Olive	Olive pomace		Proximates	Water	44.41	g/100g	NOSHAN
Onion	Onion hulls		Proximates	Water	14.6	g/100g	NOSHAN
Onion	Onion	Slices, fresh	Proximates	Water	9.03	g/100g	NOSHAN
Potato	Potato	Selected	Proximates	Water	9.88	g/100g	NOSHAN
Potato	Potato skin		Proximates	Water	5.05	g/100g	NOSHAN
Rape	Rapeseed press cake		Proximates	Water	8.57	g/100g	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Water	12.22	g/100g	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Water	8.8	g/100g	NOSHAN
Tomatoes	Tomato skin		Proximates	Water	87.21	g/100g	NOSHAN
Apple	Apple	Whole	Proximates	Water	11.3	g/100g	NOSHAN
Pears	Pear	Whole	Proximates	Water	10.2	g/100g	NOSHAN
Yoghurt	Yoghurt		Proximates	Water	87.56	g/100g	NOSHAN

Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Proximates	Water	13.14	g/100g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Proximates	Water	14.52	g/100g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Proximates	Water	14.68	g/100g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Animal by-products, unspecified	Blood	Poultry, coagulated. Inedbile fattened chicken slaughtering by-products	Proximates	Water	80.75	g/100g	Chemical characterization of tomato pomace
Poultry	Feathers	Wet. Inedbile fattened chicken slaughtering by-products	Proximates	Water	72.43	g/100g	Chemical characterization of tomato pomace
Poultry	Offals	Soft, guts. Inedbile fattened chicken slaughtering by-products	Proximates	Water	66.75	g/100g	Chemical characterization of tomato pomace
Poultry	Poultry heads and feet	Inedbile fattened chicken slaughtering by-products	Proximates	Water	66.45	g/100g	Chemical characterization of tomato pomace
Poultry	Offals	Various. Inedbile fattened chicken slaughtering by-products	Proximates	Water	62.78	g/100g	Chemical characterization of tomato pomace

Bolti	Bolti fish	Whole	Proximates	Water	76.33	g/100g	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Bolti	Bolti fish	Flesh only	Proximates	Water	78.21	g/100g	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate

Fish, unspecified	Fish protein isolate		Proximates	Water	78.65	g/100g	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Olive	Olive stones		Proximates	Water	7.4	g/100g	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive stones	Carbonization solid product	Proximates	Water	3.1	g/100g	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive stones	Vacuum carbonization solid product	Proximates	Water	2.7	g/100g	Conversion of olive wastes to volatiles and carbon adsorbents

Olive	Olive pulp		Proximates	Water	8.7	g/100g	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp	Carbonization solid product	Proximates	Water	1.6	g/100g	Conversion of olive wastes to volatiles and carbon adsorbents
Olive	Olive pulp	Vacuum carbonization solid product	Proximates	Water	2	g/100g	Conversion of olive wastes to volatiles and carbon adsorbents
Rice	Rice straw char	Char from pyrolysis at 490°C	Proximates	Water	0	g/100g	ECN Phyllis 2
Straw	Straw		Proximates	Water	3.9	g/100g	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Proximates	Water	0.1	g/100g	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Proximates	Water	0.1	g/100g	ECN Phyllis 2
Wheat	Char from wheat straw	Char from fluid bed gasifier	Proximates	Water	4	g/100g	ECN Phyllis 2
Wheat	Wheat straw char		Proximates	Water	0	g/100g	ECN Phyllis 2

Wheat	Wheat	Whole crop. Flowering cultivar Phelivan	Proximates	Water	64.3	g/100g	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Phelivan	Proximates	Water	63.4	g/100g	ECN Phyllis 2
Wheat	Wheat	Whole crop. Dough cultivar Phelivan	Proximates	Water	61	g/100g	ECN Phyllis 2
Wheat	Wheat	Whole crop. Flowering cultivar Gonen	Proximates	Water	64.1	g/100g	ECN Phyllis 2
Wheat	Wheat	Whole crop. Milk cultivar Gonen	Proximates	Water	63	g/100g	ECN Phyllis 2
Wheat	Wheat	Whole crop. Dough cultivar Gonen	Proximates	Water	60.5	g/100g	ECN Phyllis 2
Sugar cane	Sugar cane trash	Ground pellets	Proximates	Water	6	g/100g	ECN Phyllis 2

Sugar cane	Sugar cane leaves	Higher heating value given as 16.000-17600 kJ/kg; in Biomass and Bioenergy 13 (1997) 141-146 it is given as 17.430 kJ/kg. The higher value may apply to dry ash-free material.	Proximates	Water	33	g/100g	ECN Phyllis 2
Bean	Bean plant		Proximates	Water	85.52	g/100g	ECN Phyllis 2
Cabbage	Abyssinian cabbage	Ash type: 550°C. Fluid ash fusion temperature above 1400°C	Proximates	Water	7.4	g/100g	ECN Phyllis 2
Courgette	Courgette plant		Proximates	Water	93.04	g/100g	ECN Phyllis 2
Cucumber	Cucumber plant		Proximates	Water	89.36	g/100g	ECN Phyllis 2

Melon	Melon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Proximates	Water	91.85	g/100g	ECN Phyllis 2
Pepper	Pepper plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87	Proximates	Water	80.91	g/100g	ECN Phyllis 2
Potato	Potato mash		Proximates	Water	70.5	g/100g	ECN Phyllis 2

Tomatoes	Tomato plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Proximates	Water	89.54	g/100g	ECN Phyllis 2

Melon	Watermelon plant	C,H and N determined according to UNE-CEN/TS 15104:2008 EX. S according to ASTM D4239-08, Cl according to ASTM E776-87. Erroneous data for ash metal content corrected after consultation with authors.	Proximates	Water	90.84	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond	Proximates	Water	8.18	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond	Proximates	Water	7.85	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Fluid ash fusion temperature above 1400°C	Proximates	Water	13.7	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Proximates	Water	6.52	g/100g	ECN Phyllis 2

Nuts, unspecified	Nut hulls	Almond, shells (hulls). Ash type: 600 Degree Celcius	Proximates	Water	6.93	g/100g	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Proximates	Water	13.4	g/100g	ECN Phyllis 2
Cacao/cocoa	Cacao	Ash type: 815 degC	Proximates	Water	9.33	g/100g	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Proximates	Water	8	g/100g	ECN Phyllis 2
Cacao/cocoa	Cacao shells	Report JOU2-CT93-0397; data from K. Lassing, E. Olsson and L. Waldheim, TPS	Proximates	Water	6.7	g/100g	ECN Phyllis 2
Coconut	Coconut shell	Coconuts shells from Madal, Mozambique	Proximates	Water	5.6	g/100g	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Water	4.4	g/100g	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Water	14.3	g/100g	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 1, samples from Trabzon, Turkey	Proximates	Water	12.8	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 2, samples from Trabzon, Turkey	Proximates	Water	13	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 3, samples from Trabzon, Turkey	Proximates	Water	11.9	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Hazelnut. Corylus avellana, sample 4, samples from Trabzon, Turkey	Proximates	Water	12.1	g/100g	ECN Phyllis 2

Nuts, unspecified	Nut shells	Hazelnut. Proximate analyses and calorific value according to ASTM standards. Extractives according to ASTM D 1105, lignin Van Soest, alpha cellulose (22.9%) TAPPI T203 om-88. Holocellulose 38.6%. Ash type: 600°C according to ASTM E 1755. Ash melting according to DIN 51730. Ash contains 1.59% ZnO and 0.29% SnO.	Proximates	Water	11.8	g/100g	ECN Phyllis 2
Olive	Olive cake		Proximates	Water	6.4	g/100g	ECN Phyllis 2
Olive	Olive cake		Proximates	Water	6.37	g/100g	ECN Phyllis 2

Olive	Olive husk	Extractives 8.1%; compositions and heating values of char and pyrolysis oil in ID = 2264 and 2265	Proximates	Water	0	g/100g	ECN Phyllis 2
Olive	Olive husk	Ash type: 815°C	Proximates	Water	9.48	g/100g	ECN Phyllis 2
Olive	Olive pits	Ash type: ASTM D1102; 600C ASTM D 1102, 600 Degree Celcius	Proximates	Water	6.08	g/100g	ECN Phyllis 2
Olive	Olive pits		Proximates	Water	8	g/100g	ECN Phyllis 2
Olive	Olive residue	Oily refuse from olive processing	Proximates	Water	7.5	g/100g	ECN Phyllis 2
Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 1	Proximates	Water	13.9	g/100g	ECN Phyllis 2

Olive	Olive residue	Orujillo, produced and collected in Andalusia, Spain, sample 2	Proximates	Water	11.7	g/100g	ECN Phyllis 2
Olive	Olive residue		Proximates	Water	14.33	g/100g	ECN Phyllis 2
Olive	Olive residue		Proximates	Water	13.68	g/100g	ECN Phyllis 2
Olive	Olive waste	Country: Spain	Proximates	Water	12.17	g/100g	ECN Phyllis 2
Olive	Olive flesh	Ash type: 550 degC. Same data in: Energy & Fuels 19 (2005) 825-832	Proximates	Water	14.4	g/100g	ECN Phyllis 2
Olive	Olive husk	Exhausted	Proximates	Water	8.1	g/100g	ECN Phyllis 2
Olive	Olive kernels	Fraction > 1mm. Cl calculated from ash (assuming Cl in biomass/Cl in ash = 3, like ID 1764); ash sintering starts at 750°C, fully fused at 900°C	Proximates	Water	8.76	g/100g	ECN Phyllis 2

Olive	Olive kernels	Fraction > 1mm, leached. Ash does not sinter between 750°C and 900°C	Proximates	Water	9.33	g/100g	ECN Phyllis 2
Olive	Olive residue	Cakes from olive oil production. Ash type: 550degC. Cl and O-content from S.Arvelakis et.al. Proc. 5th Eur. Conf. on Industrial Furnaces and Boilers, Vol.2,p.163-172. See also ID 1968, 1969 and 1970. Slightly different ash composition reported in Biomass and Bioenergy 22 (2002) 55-69.	Proximates	Water	5.5	g/100g	ECN Phyllis 2

Olive	Olive residue	Leached. Ash composition from Arvelakis et al., Biomass and Bioenergy 22 (2002) 55-69.	Proximates	Water	7.83	g/100g	ECN Phyllis 2
Olive	Orujillo	Wood matter from pressed oil stone	Proximates	Water	7.6	g/100g	ECN Phyllis 2
Cherry	Cherry pits		Proximates	Water	6	g/100g	ECN Phyllis 2
Coffee	Coffee husk		Proximates	Water	11.4	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio	Proximates	Water	7.53	g/100g	ECN Phyllis 2
Nuts, unspecified	Nut shells	Pistachio. California residues collected from producers for MFC trials	Proximates	Water	7.54	g/100g	ECN Phyllis 2
Prunes	Prune pits		Proximates	Water	33.59	g/100g	ECN Phyllis 2
Coffee	Coffee husk	Parchment	Proximates	Water	10.2	g/100g	ECN Phyllis 2
Cotton	Cottonseed husks	Israel	Proximates	Water	9.7	g/100g	ECN Phyllis 2
Grape	Grape seeds		Proximates	Water	7.6	g/100g	ECN Phyllis 2
Lemon	Lemon pellets	Lemon. Ash type: 815°C	Proximates	Water	9.14	g/100g	ECN Phyllis 2
Millet	Millet husk		Proximates	Water	9	g/100g	ECN Phyllis 2

Mustard	Mustard husk		Proximates	Water	5.6	g/100g	ECN Phyllis 2
Distillers grain	Distillers grain	Wheat, dried, with solubles (DDGS)	Proximates	Water	107	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed wheat dried distillers grains with solubles (DDGS)
Pears	Pear pomace		Proximates	Water	34.2	g/kg	Comparative study of alkaline extraction process of hemicelluloses from pear pomace
Distillers grain	Distillers grain	Corn, with solubles	Proximates	Water	87	g/kg	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Water	76	g/kg	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Water	110	g/kg	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Canola	Juncea canola meal		Proximates	Water	108	g/kg	Diet nutrient digestibility and growth performance of weaned pigs fed solvent extracted Brassica juncea canola meal
Sugar beet	Sugar beet molasses	From pulp	Proximates	Water binding capacity	4.5	g/g DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Water binding capacity	5.3	g/g DM	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Water binding capacity	3.3	g/g DM	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar cane	Sugar cane bagasse		Waste compounds	Water soluble material	1.3	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw
Sugar cane	Sugar cane straw		Waste compounds	Water soluble material	2.1	% DM	Differences in the chemical structure of the lignins from sugarcane bagasse and straw
Potato	Potato fibres	Pressed	Waste compounds	Water-holding capacity	8.3	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Residue from pressed potato fibres	pH 4.8	Waste compounds	Water-holding capacity	9.3	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	pH 4.2	Waste compounds	Water-holding capacity	9	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	pH 3.6	Waste compounds	Water-holding capacity	6.6	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Buffer insoluble solids		Waste compounds	Water-holding capacity	9.9	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Potato fibres	Pressed, hydrolyzed by enzyme	Waste compounds	Water-holding capacity	3.3	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Waste compounds	Water-holding capacity	6.1	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Waste compounds	Water-holding capacity	1.8	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Waste compounds	Water-holding capacity	2	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Arabinogalactan		Waste compounds	Water-holding capacity	2.1	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Polygalacturonic acid		Waste compounds	Water-holding capacity	1.6	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Arabinan		Waste compounds	Water-holding capacity	3.2	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Potato fibres	Pressed. After incubation with H2O	Waste compounds	Water-holding capacity	8.2	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Residue from pressed potato fibres	pH 4.8, after incubation with H2O	Waste compounds	Water-holding capacity	14	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Buffer insoluble solids	After incubation with H2O	Waste compounds	Water-holding capacity	11.4	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Potato fibres	Pressed, hydrolyzed by enzyme. After incubation with H2O	Waste compounds	Water-holding capacity	3.9	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme. After incubation with H2O	Waste compounds	Water-holding capacity	6.7	mL/g	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Waste compounds	Water-holding capacity	210	%	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Waste compounds	Water-holding capacity	105.8	%	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Waste compounds	Water-holding capacity	285	%	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Waste compounds	Water-holding capacity	233.6	%	ECN Phyllis 2
Milk	Milk	Holstein Friesian cows, Spain	Proximates	Whey proteins	17.35	% of protein	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Milk	Milk	Granadina goats, Spain	Proximates	Whey proteins	17.30	% of protein	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Sugar by-products, unspecified	Bagasse		Proximates	Xylan	21.9	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering

Sugar by-products, unspecified	Trash		Proximates	Xylan	20.5	% DM	A techno-economic evaluation of the effects of centralized cellulosic ethanol and co-products refinery options with sugarcane mill clustering
Olive	Olive tree pruning	Biomass	Proximates	Xylan	11.8	% DM	Alkaline twin-screw extrusion fractionation of olive-tree pruning biomass
Banana	Banana bunch		Proximates	Xylan	12.83	% DM	Binderless fiberboard from steam exploded banana bunch

Sugar cane	Sugar cane bagasse		Proximates	Xylan	24.6	% DM	Combined ethanol and methane production using steam pretreated sugarcane bagasse
Sugar by-products, unspecified	Bagasse		Proximates	Xylan	22	% DM	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Banana	Banana pintoza		Proximates	Xylan	10.66	% DM	ECN Phyllis 2
Hop	Hops		Proximates	Xylan	14.4	% DM	ECN Phyllis 2
Hop	Hops	Bast	Proximates	Xylan	2.7	% DM	ECN Phyllis 2
Pineapple	Pineapple		Proximates	Xylan	12.04	% DM	ECN Phyllis 2
Potato	Potato mash		Proximates	Xylan	0.22	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Almond. Charcoal yield 36.7% at 1 MPa, fixed-C yield 28.9%	Proximates	Xylan	28.7	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Xylan	14.8	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Xylan	13.3	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Xylan	14.4	% DM	ECN Phyllis 2

Coconut	Coconut fibre		Proximates	Xylan	16.98	% DM	ECN Phyllis 2
Coconut	Coconut fibre		Proximates	Xylan	16.2	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Xylan	9	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Xylan	7.3	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Xylan	9.4	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Xylan	9.8	% DM	ECN Phyllis 2
Coconut	Coconut husk		Proximates	Xylan	14.4	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Xylan	8.8	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Xylan	7.9	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Xylan	1.8	% DM	ECN Phyllis 2
Coconut	Coconut pith		Proximates	Xylan	5.9	% DM	ECN Phyllis 2
Coconut	Coconut shell	Charcoal yield 41.4% at 1 MPa, fixed-C yield 30.1%	Proximates	Xylan	28	% DM	ECN Phyllis 2
Coconut	Coconut shell		Proximates	Xylan	23.93	% DM	ECN Phyllis 2
Wheat	Wheat bran		Proximates	Xylan	15.9	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Kukui. Charcoal yield 58.6% at 1 MPa, fixed-C yield 41.4%	Proximates	Xylan	14	% DM	ECN Phyllis 2
Nuts, unspecified	Nut shells	Macadamia. Charcoal yield 50.8% at 1 MPa, fixed-C yield 35.9%	Proximates	Xylan	20.2	% DM	ECN Phyllis 2

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; end pressure MPa: 0.5	Proximates	Xylan	5.4	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 155°C; O2 pressure MPa: 0.6; end pressure MPa: 1.0	Proximates	Xylan	6.3	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; end pressure MPa: 0.7	Proximates	Xylan	5.1	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 170°C; O2 pressure MPa: 0.6; end pressure MPa: 1.7	Proximates	Xylan	3.8	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; end pressure MPa: 1.1	Proximates	Xylan	4.4	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 185°C; O2 pressure MPa: 0.6; end pressure MPa: 1.9	Proximates	Xylan	2.9	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis

Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; end pressure MPa: 1.4	Proximates	Xylan	2.7	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Sugar by-products, unspecified	Bagasse	Solid fraction filter cake. Experimental conditions: 200°C; O2 pressure MPa: 0.6; end pressure MPa: 2.2	Proximates	Xylan	0.5	g/100g	Wet explosion pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis
Nuts, unspecified	Nut shells	Almond	Proximates	Xylan	329	g/kg DM	Development of an integrated pretreatment fractionation process for fermentable sugars and lignin, application to almond shell

Potato	Potato fibres	Pressed	Proximates	Xylose	100	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Xylose	8	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Buffer insoluble solids		Proximates	Xylose	112	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Proximates	Xylose	8	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Residue from pressed potato fibres		Proximates	Xylose	102	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Xylose	86	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Xylose	34	Yield % cell wall polysaccharide residues (g CWP residue/100g CWP residue)	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Pears	Pear pomace		Proximates	Xylose	437.1	g/kg total sugar	Comparative study of alkaline extraction process of hemicelluloses from pear pomace

Apple	Pectin	Extracted, apple	Proximates	Xylose	2.12	% w/w d.b	Pectin from apple pomace: extraction, characterization and utilization
Palm	Palm empty fruit bunches	Oil palm empty fruit bunches before hydrothermal pretreatment	Proximates	Xylose	21.5	% w/w d.b	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion
Palm	Palm empty fruit bunches	Oil palm empty fruit bunches fibres after hydrothermal pretreatment	Proximates	Xylose	3.7	% w/w d.b	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion

Wheat	Wheat bran extract	High starch. Origin of glucose is mainly starch	Proximates	Xylose	11	% DM	Comparison of two wheat bran extracts in the sheet extrusion process
Wheat	Wheat bran extract	High protein	Proximates	Xylose	11.5	% DM	Comparison of two wheat bran extracts in the sheet extrusion process
Olive	Isolated lignin from olive tree pruning	By organosolv pretreatment	Proximates	Xylose	1.1	%	Biorefining of olive tree (Olea europea) pruning
Grape	Grape stalks		Proximates	Xylose	20.4	%	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Wine by-products, unspecified	Holocellulose		Proximates	Xylose	22.3	%	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces

Grape	Grape pomace	Deseeded, without stalk. Area of production: Alsace. Red and white grapes (Vitis vinifera)	Proximates	Xylose	4.59	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Aquitaine. Red and white grapes (Vitis vinifera)	Proximates	Xylose	3.23	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Beaujolais. Red and white grapes (Vitis vinifera)	Proximates	Xylose	2.35	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Bourgogne. Red and white grapes (Vitis vinifera)	Proximates	Xylose	2.23	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Champagne. Red and white grapes (Vitis vinifera)	Proximates	Xylose	6.96	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Languedoc. Red and white grapes (Vitis vinifera)	Proximates	Xylose	3.38	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard

Grape	Grape pomace	Deseeded, without stalk. Area of production: Val de Loire. Red and white grapes (Vitis vinifera)	Proximates	Xylose	1.49	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Grape	Grape pomace	Deseeded, without stalk. Area of production: Provence. Red and white grapes (Vitis vinifera)	Proximates	Xylose	3.74	g/100g DM	Compositions and chemical variability of grape pomaces from French vineyard
Orange	Orange pulp, dried		Proximates	Xylose	21.4	g/kg DM	Citrus by-products as ruminant feeds: A review

Distillers grain	Distillers grain	Corn, with solubles	Proximates	Xylose	77	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Xylose	86	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Xylose	78	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Proximates	Xylose	0.51	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Proximates	Xylose	0.78	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Proximates	Xylose	0.24	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Proximates	Xylose	0.67	kg/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Potato	Potato fibres	Pressed	Proximates	Xylose	3	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Hot buffer soluble solids		Proximates	Xylose	1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Buffer insoluble solids		Proximates	Xylose	6	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre		Proximates	Xylose	1	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Residue from pressed potato fibres		Proximates	Xylose	5	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Potato	Supernatant from pressed potato fibre	Hydrolyzed by enzyme	Proximates	Xylose	4	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre

Potato	Residue from pressed potato fibres	Hydrolyzed by enzyme	Proximates	Xylose	3	mol%	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre
Apple	Apple pomace		Proximates	Xylose	9.07	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Orange	Orange peel	Orange	Proximates	Xylose	5	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Hop	Hops		Proximates	Xylose	27	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple cake		Proximates	Xylose	26.67	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Cabbage	Cabbage		Proximates	Xylose	12	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cucumber	Cucumber	Sour	Proximates	Xylose	13	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Grape	Grape pomace		Proximates	Xylose	6	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Olive	Olive pomace		Proximates	Xylose	18	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Onion	Onion hulls		Proximates	Xylose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Rape	Rapeseed press cake		Proximates	Xylose	27.27	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Xylose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Xylose	0	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Tomatoes	Tomato skin		Proximates	Xylose	13	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple	Whole	Proximates	Xylose	47	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN

Pears	Pear	Whole	Proximates	Xylose	20	Non covalent-bound pectin fraction (CDTA fraction) (GC/MS)	NOSHAN
Apple	Apple pomace		Proximates	Xylose	5.85	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Hop	Hops		Proximates	Xylose	11	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Apple	Apple cake		Proximates	Xylose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage		Proximates	Xylose	25	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Cucumber	Cucumber	Sour	Proximates	Xylose	26	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Grape	Grape pomace		Proximates	Xylose	9	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Olive	Olive pomace		Proximates	Xylose	26	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Rape	Rapeseed press cake		Proximates	Xylose	18.8	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Cabbage	Cabbage	Sour	Proximates	Xylose	20	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Tomatoes	Tomato skin		Proximates	Xylose	23	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Apple	Apple	Whole	Proximates	Xylose	20	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Pears	Pear	Whole	Proximates	Xylose	37	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Palm	Palm empty fruit bunches	Oil palm empty fruit bunches before hydrothermal pretreatment	Proximates	Xylose	21.5	% w/w	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion

Palm	Palm empty fruit bunches	Oil palm empty fruit bunches fibres after hydrothermal pretreatment	Proximates	Xylose	3.7	% w/w	4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm fruit bunches. Its origin and influence on biomass conversion
Sugar beet	Sugar beet molasses	From pulp	Proximates	Xylose	nd	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Xylose	1	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients

Sugar beet	Sugar beet		Proximates	Xylose	nd	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Carrot	Carrot		Proximates	Xylose	nd	S-NCP (g/kg DM)	Chemical and phsicochemical characterisation of various horse feed ingredients
Rye	Seed residue		Proximates	Xylose	135	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Pea	Pea hull		Proximates	Xylose	80	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Brewer's yeast/grains, unspecified	Brewer's grains	Spent	Proximates	Xylose	167	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Fruit and vegetables, unspecified	Pectin residue		Proximates	Xylose	57	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Potato	Potato pulp		Proximates	Xylose	14	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet pulp		Proximates	Xylose	14	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Wheat	Wheat		Proximates	Xylose	46	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries

Barley	Barley		Proximates	Xylose	56	NCP (g/kg DM)	Chemical and physicochemical characterisation of co-products from the vegetable food and agro industries
Sugar beet	Sugar beet molasses	From pulp	Proximates	Xylose	7	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet pulp		Proximates	Xylose	10	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Sugar beet	Sugar beet		Proximates	Xylose	2	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients

Carrot	Carrot		Proximates	Xylose	2	I-NCP (g/kg dm)	Chemical and phsicochemical characterisation of various horse feed ingredients
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Xylose	0.91	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Xylose	0.45	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Xylose	1.94	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Melot	Proximates	Xylose	2.13	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Xylose	2.09	Insoluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Muller Thurgau	Proximates	Xylose	0.02	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Morio Muscat	Proximates	Xylose	0.02	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Cabernet Sauvignon	Proximates	Xylose	0.03	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Grape	Grape skins	White grape pomace skins, Melot	Proximates	Xylose	0.04	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins

Grape	Grape skins	White grape pomace skins, Pinot Noir	Proximates	Xylose	0.02	Soluble dietary fiber (% DM)	Chemical composition of dietary fiber and polyphenols of five different wine grape pomace skins
Orange	Orange peel	Orange	Proximates	Xylose	5	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Onion	Onion hulls		Proximates	Xylose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Proximates	Xylose	0	Covalent-bound pectin fraction (Na2CO3 fraction) (GC/MS)	NOSHAN

Distillers grain	Distillers grain	Corn, with solubles	Proximates	Xylose, soluble	6	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Distillers grain	Distillers grain	Wheat, with solubles	Proximates	Xylose, soluble	23	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides

Distillers grain	Distillers grain	Mixed, with solubles	Proximates	Xylose, soluble	21	g/kg DM	Compositional profile and variation of Distillers Dried Grains with Solubles from various origins with focus on non-starch polysaccharides
Pears	Pear pomace		Proximates	Xylose:glucose ratio	1.3	N/A	Comparative study of alkaline extraction process of hemicelluloses from pear pomace
Hop	Hops		Undesirable components	Yeast	<100	cfu/g	NOSHAN
Barley	Malted barley germs		Undesirable components	Yeast	<100	cfu/g	NOSHAN
Onion	Onion	Slices, fresh	Undesirable components	Yeast	<100	cfu/g	NOSHAN
Rape	Rapeseed press cake		Undesirable components	Yeast	<100	cfu/g	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Undesirable components	Yeast	<100	cfu/g	NOSHAN

Apple	Apple	Whole	Undesirable components	Yeast	83000	cfu/g	NOSHAN
Pears	Pear	Whole	Undesirable components	Yeast	585000	cfu/g	NOSHAN
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Undesirable components	Yeast	1.06	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Undesirable components	Yeast	6.04	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Undesirable components	Yeast	6.88	log CFU per g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Apple	Apple pomace		Undesirable components	Yeast	3.51	log CFU/g	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace

Grape	Grape pomace		Undesirable components	Yeast	8.03	log CFU/g	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Undesirable components	Yeast after 1 hour exposure to air	ND	log CFU/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Undesirable components	Yeast after 1 hour exposure to air	ND	log CFU/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Undesirable components	Yeast after 1 hour exposure to air	ND	log CFU/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	Pre-fermented. Lamb and goats	Undesirable components	Yeast after 5 days of incubation	2.42	log CFU/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Lamb	Slaughterhouse blood	L.acidophilus-fermented. Lamb and goats	Undesirable components	Yeast after 5 days of incubation	ND	log CFU/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed

Lamb	Slaughterhouse blood	Whey-fermented. Lamb and goats	Undesirable components	Yeast after 5 days of incubation	ND	log CFU/g	Application of fermentation technology to use slaughterhouse blood as potential protein supplement in fish feed
Banana	Banana		Waste compounds	Young's Modulus	27-32	GPa	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Sugar cane	Sugar cane bagasse		Waste compounds	Young's Modulus	27.1	GPa	Characterization of banana, sugarcane bagasse and sponge gourd fibers of Brazil
Brewer's yeast/grains, unspecified	Brewing cake		Undesirable components	Zearalenone	<30	µg/kg	NOSHAN
Barley	Malted barley germs		Undesirable components	Zearalenone	<30	µg/kg	NOSHAN

Grain, unspecified	Oil extracted from distillers dried grains with soluble		Vitamin fractions	Zeaxanthin	24.16	µg/g	Composition and oxidative stability of crude oil extracts of corn gem and distillers grains
Apple	Apple juice	Clear, ambient and chilled, from concentrate	Inorganics	Zinc	Tr	mg/100g	Department of Health UK, Nutrient analysis of fruit and vegetables, 2013
Grape	Grape stalks		Inorganics	Zinc	0.01	% w/w	Chemical composition of grape stalks of Vitis vinifera L. from red grape pomaces
Grape	Grape cane	Alphone Lavallee	Inorganics	Zinc	4.14	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Inorganics	Zinc	2.37	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Inorganics	Zinc	2.18	mg/100g	Chemical composition of grape canes

Grape	Grape cane	Hafizali	Inorganics	Zinc	0.7	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Inorganics	Zinc	2.9	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Isabella	Inorganics	Zinc	9.82	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Italia	Inorganics	Zinc	1.48	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Inorganics	Zinc	7.24	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Inorganics	Zinc	5.81	mg/100g	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Inorganics	Zinc	2.54	mg/100g	Chemical composition of grape canes
Tomatoes	Tomato pomace	Solanum lucopersicum	Inorganics	Zinc	54	mg/1000g	Vegetable waste as animal feed paper; Utilization of fruit and vegetable wastes, FAO

Nuts, unspecified	Nut meal	Babacu	Inorganics	Zinc	46.5	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Nuts, unspecified	Nut meal	Cashew	Inorganics	Zinc	52.3	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cassava	Cassava meal		Inorganics	Zinc	12.2	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Coconut	Coconut meal	Solv	Inorganics	Zinc	92.8	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Corn	Corn gluten meal		Inorganics	Zinc	11.8	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Cotton	Cottonseed meal	solv	Inorganics	Zinc	90.8	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Poultry	Feather meal	Hydrolyzed	Inorganics	Zinc	95.5	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Animal by-products, unspecified	Meat and bone meal		Inorganics	Zinc	84.4	mg/kg	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Rice	Rice bran	Defatted	Inorganics	Zinc	71.9	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Soy	Soybean meal	solv	Inorganics	Zinc	54.4	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Sugar cane	Sugar cane juice		Inorganics	Zinc	3.8	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Barley	Malt sprout meal		Inorganics	Zinc	78.7	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil

Wheat	Wheat bran		Inorganics	Zinc	104	mg/1000g	Chemical composition, digestible protein and energy values of some alternative feedstuffs for pigs in Brazil
Carrot	Carrot pulp	Daucus carota	Inorganics	Zinc	710	mg/1000g	Vegetable waste as animal feed paper
Potato	Potato	Solanum tuberosum	Inorganics	Zinc	14.5	mg/1000g	Vegetable waste as animal feed paper
Pumpkin	Pumpkin oil meal	Cucurbita pepo	Inorganics	Zinc	16	mg/1000g	Vegetable waste as animal feed paper
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Zinc	54	mg/1000g	Vegetable waste as animal feed paper
Cabbage	Cabbage leaves	Brassica oleracea	Inorganics	Zinc	48.3	mg/1000g	Vegetable waste as animal feed paper

Cauliflower	Cauliflower leaves	Brassica oleracea	Inorganics	Zinc	40.8	mg/1000g	Vegetable waste as animal feed paper
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Zinc	32.5	mg/1000g	Vegetable waste as animal feed paper
Poultry	Hatchery waste		Inorganics	Zinc	22	mg/1000g	Composition of Australian meat chicken hatchery waste
Beef	Rumen content, dried	Sun-dried, blood meal. Abattoir waste	Inorganics	Zinc	0.03	mg/1000g	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens

Beef	Blood meal, dried	Vat dried. Abattoir waste	Inorganics	Zinc	38	mg/1000g	Conversion of abattoir wastes into livestock feed, chemical composition of sun-dried rumen content blood meal and its effect on performance of broiler chickens
Apple	Apple pomace, dried	Powder	Inorganics	Zinc	15	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Zinc	24.7	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Zinc	24	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Zinc	24	mg/l	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder	Inorganics	Zinc	15.6	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Inorganics	Zinc	25.86	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Inorganics	Zinc	25.1	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Inorganics	Zinc	24.92	mg/l DM	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Grape	Grape seeds	White, Italian	Inorganics	Zinc	13	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Red, Italian	Inorganics	Zinc	14	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Californian	Inorganics	Zinc	17	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape seeds	Not ensiled	Inorganics	Zinc	15	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape seeds	Ensiled for 45 days	Inorganics	Zinc	14	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	White, Italian	Inorganics	Zinc	12	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Red, Italian	Inorganics	Zinc	12	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Californian	Inorganics	Zinc	18	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pulp	Not ensiled	Inorganics	Zinc	14	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pulp	Ensiled for 45 days	Inorganics	Zinc	14	g/kg DM	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Distillery by-products, unspecified	Distillers solids		Inorganics	Zinc	92	g/kg DM	Wet barley distillers solids as a protein source for growing pigs
Apple	Apple pomace	Malus domestica	Inorganics	Zinc	14	mg/kg DM	Waste to worth: fruit wastes and by-products as animal feed
Grape	Grape pomace/marc	Namily vitaceae	Inorganics	Zinc	24	mg/kg DM	Utilization of fruit and vegetable wastes, FAO; Fruit waste as feed paper

Citrus, unspecified	Citrus pulp silage		Inorganics	Zinc	16	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus meal, dried		Inorganics	Zinc	16	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Zinc	11	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus pulp, dried		Inorganics	Zinc	15	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus molasses		Inorganics	Zinc	137	mg/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Zinc	16	mg/kg DM	Citrus by-products as ruminant feeds: A review

Citrus, unspecified	Citrus pulp, dried		Inorganics	Zinc	34.1	mg/kg DM	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp, dried		Inorganics	Zinc	20.9	mg/kg DM	Citrus by-products as ruminant feeds: A review
Animal by-products, unspecified	Meat compost	Mature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Zinc	540	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Immature. With cc.HNO3+cc. H2O2 digestion	Inorganics	Zinc	270	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat compost	Semi-mature, meat powder based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Zinc	164	mg/kg DM	Composted slaughterhouse waste as organic fertilizer

Animal by-products, unspecified	Meat compost	Semi-mature, cooked meat based. With cc.HNO3+cc. H2O2 digestion	Inorganics	Zinc	237	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Animal by-products, unspecified	Meat powder	With cc.HNO3+cc. H2O2 digestion	Inorganics	Zinc	104	mg/kg DM	Composted slaughterhouse waste as organic fertilizer
Citrus, unspecified	Citrus pulp, dried		Inorganics	Zinc	14.4	mg/kg DM	Citrus by-products as ruminant feeds: A review
Citrus, unspecified	Citrus seed meal	Mechanical extract	Inorganics	Zinc	8.0	mg/kg DM	Citrus by-products as ruminant feeds: A review
Rice	Rice, aerial part	Fresh	Inorganics	Zinc	48	mg/kg DM	Feedipedia
Rice	Rice straw		Inorganics	Zinc	34	mg/kg DM	Feedipedia
Rice	Rice straw	Urea-treated	Inorganics	Zinc	37	mg/kg DM	Feedipedia
Sugar cane	Sugar cane forage	Whole plant, fresh	Inorganics	Zinc	225	mg/kg DM	Feedipedia
Wheat	Triticale grain		Inorganics	Zinc	27	mg/kg DM	Feedipedia
Wheat	Wheat straw		Inorganics	Zinc	17	mg/kg DM	Feedipedia

Palm	Oil palm fronds	Fresh	Inorganics	Zinc	11	mg/kg DM	Feedipedia
Palm	Oil palm leaflets	Fresh	Inorganics	Zinc	13	mg/kg DM	Feedipedia
Distillers grain	Distillers grain	Malt (draff), fresh	Inorganics	Zinc	188	mg/kg DM	Feedipedia
Distillers grain	Distillers grain, dried	Malt dark, dried	Inorganics	Zinc	57	mg/kg DM	Feedipedia
Distillers grain	Distillers grain	Barley (ethanol)	Inorganics	Zinc	67	mg/kg DM	Feedipedia
Distillery by-products, unspecified	Pot ale syrup		Inorganics	Zinc	22	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Dehydrated	Inorganics	Zinc	89	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Fresh	Inorganics	Zinc	83	mg/kg DM	Feedipedia
Rice	Rice grain	Polished	Inorganics	Zinc	12	mg/kg DM	Feedipedia
Rice	Rice grain	Brown	Inorganics	Zinc	22	mg/kg DM	Feedipedia
Barley	Barley rootlets	Dehydrated	Inorganics	Zinc	108	mg/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried	Inorganics	Zinc	62	mg/kg DM	Feedipedia
Distillers grain	Distillers grains and solubles, dried	Maize, dried, high protein	Inorganics	Zinc	39	mg/kg DM	Feedipedia

Distillers grain	Distillers grains and solubles, dried	Maize, dried, fat <6%	Inorganics	Zinc	81	mg/kg DM	Feedipedia
Rice	Rice bran	Fibre 4-11%	Inorganics	Zinc	63	mg/kg DM	Feedipedia
Rice	Rice bran	Fibre 11-20%	Inorganics	Zinc	55	mg/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre <11%	Inorganics	Zinc	80	mg/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre 11-20%	Inorganics	Zinc	80	mg/kg DM	Feedipedia
Rice	Rice bran	Defatted, fibre >20%	Inorganics	Zinc	34	mg/kg DM	Feedipedia
Rice	Rice hull		Inorganics	Zinc	43	mg/kg DM	Feedipedia
Rice	Rough rice, paddy rice		Inorganics	Zinc	14	mg/kg DM	Feedipedia
Sorghum	Sorghum bran and milling offal		Inorganics	Zinc	40	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's grains	Sorghum, dried	Inorganics	Zinc	2	mg/kg DM	Feedipedia
Sorghum	Sorghum gluten feed		Inorganics	Zinc	158	mg/kg DM	Feedipedia
Sorghum	Sorghum gluten meal		Inorganics	Zinc	30	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	All types	Inorganics	Zinc	24	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	High tannin	Inorganics	Zinc	17	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	Low tannin	Inorganics	Zinc	17	mg/kg DM	Feedipedia

Sorghum	Sorghum grain	Red varieties	Inorganics	Zinc	24	mg/kg DM	Feedipedia
Sorghum	Sorghum grain	White varieties	Inorganics	Zinc	34	mg/kg DM	Feedipedia
Wheat	Wheat bran		Inorganics	Zinc	89	mg/kg DM	Feedipedia
Wheat	Wheat grain	Distillers, with solubles, starch <7%	Inorganics	Zinc	130	mg/kg DM	Feedipedia
Wheat	Wheat germs		Inorganics	Zinc	170	mg/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Almond	Inorganics	Zinc	17	mg/kg DM	Feedipedia
Wheat	Wheat grain		Inorganics	Zinc	31	mg/kg DM	Feedipedia
Argan	Argan leaves, dried	Dried, Argania spinosa	Inorganics	Zinc	19	mg/kg DM	Feedipedia
Argan	Argan fruit pulp, dried	Dried, Argania spinosa	Inorganics	Zinc	6	mg/kg DM	Feedipedia
Argan	Argan oil cake	Mechanically extracted, Argania spinosa	Inorganics	Zinc	72	mg/kg DM	Feedipedia
Nuts, unspecified	Nut kernels	Cashew	Inorganics	Zinc	36	mg/kg DM	Feedipedia
Nuts, unspecified	Nut oil meal	Cashew	Inorganics	Zinc	25	mg/kg DM	Feedipedia
Castor	Castor oil meal	Ricinus communis	Inorganics	Zinc	205	mg/kg DM	Feedipedia
Cacao/cocoa	Cocoa pod husks		Inorganics	Zinc	85	mg/kg DM	Feedipedia

Coconut	Coconut copra	Oilmeal, expeller extraction	Inorganics	Zinc	73	mg/kg DM	Feedipedia
Coconut	Coconut copra	Oilmeal, solvent extraction	Inorganics	Zinc	68	mg/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, low oil	Inorganics	Zinc	44	mg/kg DM	Feedipedia
Cotton	Cottonseed meal	Low fibre, high oil	Inorganics	Zinc	66	mg/kg DM	Feedipedia
Cotton	Cottonseed meal	High fibre, low oil	Inorganics	Zinc	62	mg/kg DM	Feedipedia
Flax/linseed	Flax straw		Inorganics	Zinc	11	mg/kg DM	Feedipedia
Grape	Grape seeds		Inorganics	Zinc	11	mg/kg DM	Feedipedia
Grape	Grape seed oil meal	Oil >5%	Inorganics	Zinc	23	mg/kg DM	Feedipedia
Flax/linseed	Linseed meal		Inorganics	Zinc	68	mg/kg DM	Feedipedia
Corn	Maize germ meal	Protein 20-30%, oil <5%	Inorganics	Zinc	77	mg/kg DM	Feedipedia
Corn	Maize germ	Oil <30%	Inorganics	Zinc	87	mg/kg DM	Feedipedia
Olive	Olive oil cake	Crude, with stones	Inorganics	Zinc	37	mg/kg DM	Feedipedia
Olive	Olive oil cake	Exhausted, without stones	Inorganics	Zinc	22	mg/kg DM	Feedipedia
Olive	Olive oil pulp	Exhausted	Inorganics	Zinc	25	mg/kg DM	Feedipedia
Palm	Palm kernel meal	Mechanical extraction	Inorganics	Zinc	68	mg/kg DM	Feedipedia

Palm	Palm kernel meal	Solvent extraction	Inorganics	Zinc	52	mg/kg DM	Feedipedia
Palm	Oil palm mill effluent, dried	Dried	Inorganics	Zinc	18	mg/kg DM	Feedipedia
Palm	Palm press fibre	High oil	Inorganics	Zinc	145	mg/kg DM	Feedipedia
Nuts, unspecified	Nut crop residues, dried	Peanut, dry	Inorganics	Zinc	27	mg/kg DM	Feedipedia
Nuts, unspecified	Nut hulls	Peanut	Inorganics	Zinc	64	mg/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, low fibre	Inorganics	Zinc	62	mg/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil <5%, high fibre	Inorganics	Zinc	60	mg/kg DM	Feedipedia
Nuts, unspecified	Nut meal	Peanut, oil >5%	Inorganics	Zinc	59	mg/kg DM	Feedipedia
Peanuts	Peanuts, with shells	With shells	Inorganics	Zinc	25	mg/kg DM	Feedipedia
Nuts, unspecified	Nut skins	Peanut	Inorganics	Zinc	38	mg/kg DM	Feedipedia
Poppy	Poppy oil meal	Solvent extraction, Papaver somniferum	Inorganics	Zinc	80	mg/kg DM	Feedipedia
Pumpkin	Pumpkin oil meal	Solvent extraction, Cucurbita sp.	Inorganics	Zinc	190	mg/kg DM	Feedipedia

Rape	Rape forage	Fresh	Inorganics	Zinc	38	mg/kg DM	Feedipedia
Rape	Rape straw		Inorganics	Zinc	9	mg/kg DM	Feedipedia
Rape	Rapeseed hulls		Inorganics	Zinc	20	mg/kg DM	Feedipedia
Rape	Rapeseed meal	00 type, oil <5% as fed, solvent extractio	Inorganics	Zinc	68	mg/kg DM	Feedipedia
Canola	Canola meal	Oil <5% as fed	Inorganics	Zinc	68	mg/kg DM	Feedipedia
Rape	Rapeseed	Low erucic, low glucosinolates	Inorganics	Zinc	38	mg/kg DM	Feedipedia
Safflower	Safflower meal	Expeller extraction. Carthamus tinctorius	Inorganics	Zinc	64	mg/kg DM	Feedipedia
Sesame	Sesame meal	Mechanical extraction	Inorganics	Zinc	126	mg/kg DM	Feedipedia
Sesame	Sesame meal	Solvent extraction	Inorganics	Zinc	60	mg/kg DM	Feedipedia
Soy	Soybean, aerial part	Fresh	Inorganics	Zinc	387	mg/kg DM	Feedipedia
Soy	Soybean hulls		Inorganics	Zinc	48	mg/kg DM	Feedipedia
Soy	Soybean meal	Low protein (non-dehulled)	Inorganics	Zinc	54	mg/kg DM	Feedipedia
Soy	Soybean meal	High protein (non-dehulled)	Inorganics	Zinc	57	mg/kg DM	Feedipedia

Soy	Soybeans	All. Includes raw and processed whole soybeans	Inorganics	Zinc	43	mg/kg DM	Feedipedia
Soy	Soybeans	Toasted	Inorganics	Zinc	13	mg/kg DM	Feedipedia
Soy	Soybeans	Extruded	Inorganics	Zinc	45	mg/kg DM	Feedipedia
Sunflower	Sunflower forage	Fresh	Inorganics	Zinc	43	mg/kg DM	Feedipedia
Sunflower	Sunflower heads	Without seeds	Inorganics	Zinc	149	mg/kg DM	Feedipedia
Sunflower	Sunflower hulls		Inorganics	Zinc	23	mg/kg DM	Feedipedia
Sunflower	Sunflower screenings		Inorganics	Zinc	23	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled or non-dehulled	Inorganics	Zinc	96	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, dehulled and partially dehulled	Inorganics	Zinc	95	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Solvent-extracted, non-dehulled	Inorganics	Zinc	92	mg/kg DM	Feedipedia
Sunflower	Sunflower meal	Mechanically-extracted	Inorganics	Zinc	77	mg/kg DM	Feedipedia

Apple	Apple pomace, dried	Dehydrated	Inorganics	Zinc	4	mg/kg DM	Feedipedia
Apple	Apple pomace	Fresh	Inorganics	Zinc	2	mg/kg DM	Feedipedia
Banana	Banana stalks	Fresh	Inorganics	Zinc	129	mg/kg DM	Feedipedia
Citrus, unspecified	Citrus pulp, dried		Inorganics	Zinc	14	mg/kg DM	Feedipedia
Coffee	Coffee hulls		Inorganics	Zinc	56	mg/kg DM	Feedipedia
Coffee	Instant coffee by product		Inorganics	Zinc	19	mg/kg DM	Feedipedia
Date	Date palm	Depitted, Phoenix dactylifera	Inorganics	Zinc	8	mg/kg DM	Feedipedia
Grape	Grape pomace	Dehydrated	Inorganics	Zinc	26	mg/kg DM	Feedipedia
Carrot	Carrot, dried	Roots, dehydrated	Inorganics	Zinc	27	mg/kg DM	Feedipedia
Carrot	Carrot tops	Fresh	Inorganics	Zinc	37	mg/kg DM	Feedipedia
Potato	Potato peel	Fresh	Inorganics	Zinc	57	mg/kg DM	Feedipedia
Potato	Potato	Tuber, raw	Inorganics	Zinc	24	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp		Inorganics	Zinc	20	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp, dried	Dehydrated, molasses added	Inorganics	Zinc	15	mg/kg DM	Feedipedia
Sugar beet	Sugar beet pulp	Fresh	Inorganics	Zinc	17	mg/kg DM	Feedipedia

Sugar beet	Sugar beet pulp	Silage	Inorganics	Zinc	12	mg/kg DM	Feedipedia
Potato	Sweet potato, aerial part	Fresh	Inorganics	Zinc	70	mg/kg DM	Feedipedia
Potato	Sweet potato, aerial part, dried	Dry	Inorganics	Zinc	45	mg/kg DM	Feedipedia
Potato	Sweet potato	Tubers, fresh	Inorganics	Zinc	43	mg/kg DM	Feedipedia
Potato	Sweet potato, dried	Tubers, dehydrated	Inorganics	Zinc	43	mg/kg DM	Feedipedia
Sugar by-products, unspecified	Bagasse	Fresh	Inorganics	Zinc	103	mg/kg DM	Feedipedia
Sugar cane	Sugar cane molasses		Inorganics	Zinc	18	mg/kg DM	Feedipedia
Sugar cane	Sugar cane tops	Fresh	Inorganics	Zinc	34	mg/kg DM	Feedipedia
Distillery by-products, unspecified	Vinasse	From yeast production	Inorganics	Zinc	138	mg/kg DM	Feedipedia
Animal by-products, unspecified	Blood meal		Inorganics	Zinc	24	mg/kg DM	Feedipedia
Poultry	Feather meal		Inorganics	Zinc	142	mg/kg DM	Feedipedia
Fish, unspecified	Fish meal	High protein	Inorganics	Zinc	99	mg/kg DM	Feedipedia
Fish, unspecified	Fish meal	60-68%, protein as fed	Inorganics	Zinc	96	mg/kg DM	Feedipedia

Fish, unspecified	Fish protein concentrate		Inorganics	Zinc	127	mg/kg DM	Feedipedia
Frog	Frog meal	Frog waste	Inorganics	Zinc	296	mg/kg DM	Feedipedia
Frog	Frog meal	Whole frog	Inorganics	Zinc	12	mg/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	All species	Inorganics	Zinc	167	mg/kg DM	Feedipedia
Animal by-products, unspecified	Liver meal	Cattle	Inorganics	Zinc	167	mg/kg DM	Feedipedia
Poultry	Poultry manure, dried	Dehydrated, poultry	Inorganics	Zinc	499	mg/kg DM	Feedipedia
Animal by-products, unspecified	Meat and bone meal	High fat	Inorganics	Zinc	114	mg/kg DM	Feedipedia
Poultry	Offal meal	Poultry	Inorganics	Zinc	67	mg/kg DM	Feedipedia
Shrimp	Shrimps, dried	Whole, dehydrated	Inorganics	Zinc	15	mg/kg DM	Feedipedia
Toad	Toad meal		Inorganics	Zinc	17	mg/kg DM	Feedipedia
Cheese	Whey, dried	Acid, dehydrated, skimmed	Inorganics	Zinc	9	mg/kg DM	Feedipedia
Brewer's yeast/grains, unspecified	Brewer's yeast	Dehydrated	Inorganics	Zinc	114	mg/kg DM	Feedipedia
Algae	Chlorella	Dried, Chlorella spp.	Inorganics	Zinc	5	mg/kg DM	Feedipedia

Sugar cane	Sugar cane bagasse	Char. Produced at 530°C by vacuum pyrolysis	Inorganics	Zinc	27.6	mg/kg DM	ECN Phyllis 2
Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Inorganics	Zinc	140	mg/kg DM	ECN Phyllis 2

Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Inorganics	Zinc	62	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Inorganics	Zinc	130	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Zinc	68	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Inorganics	Zinc	28	mg/kg DM	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: 670°C, gasification biochar from greenhouse residues of pepper	Inorganics	Zinc	25	mg/kg DM	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Inorganics	Zinc	26	mg/kg DM	ECN Phyllis 2
Straw	Straw		Inorganics	Zinc	6.6	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 350 deg C	Inorganics	Zinc	33.1	mg/kg DM	ECN Phyllis 2
Straw	Straw pellets char	Chinese straw pellets 550 deg C	Inorganics	Zinc	43.4	mg/kg DM	ECN Phyllis 2
Apple	Apple		Inorganics	Zinc	32	mg/kg DM	ECN Phyllis 2
Apple	Apple	Cox	Inorganics	Zinc	27	mg/kg DM	ECN Phyllis 2
Brussels sprouts	Brussels sprouts		Inorganics	Zinc	61	mg/kg DM	ECN Phyllis 2
Brussels sprouts	Brussels sprouts		Inorganics	Zinc	24	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Zinc	15	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Zinc	68	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Zinc	19	mg/kg DM	ECN Phyllis 2
Carrot	Carrot		Inorganics	Zinc	18	mg/kg DM	ECN Phyllis 2
Cauliflower	Cauliflower		Inorganics	Zinc	56	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Zinc	40	mg/kg DM	ECN Phyllis 2

Cucumber	Cucumber		Inorganics	Zinc	91	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Zinc	86	mg/kg DM	ECN Phyllis 2
Cucumber	Cucumber		Inorganics	Zinc	48	mg/kg DM	ECN Phyllis 2
Leek	Leek		Inorganics	Zinc	27	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce	Average of 41 samples	Inorganics	Zinc	53.1	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Zinc	284	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Zinc	51	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Zinc	79	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Zinc	75	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Zinc	52	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Zinc	244	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Zinc	49	mg/kg DM	ECN Phyllis 2
Lettuce	Lettuce		Inorganics	Zinc	55	mg/kg DM	ECN Phyllis 2
Onion	Onion		Inorganics	Zinc	15.7	mg/kg DM	ECN Phyllis 2
Onion	Onion		Inorganics	Zinc	18	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet	Average of 19 samples	Inorganics	Zinc	28.8	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet		Inorganics	Zinc	33	mg/kg DM	ECN Phyllis 2
Beetroot	Red beet		Inorganics	Zinc	39	mg/kg DM	ECN Phyllis 2
Spinach	Spinach	Average of 38 samples	Inorganics	Zinc	122.2	mg/kg DM	ECN Phyllis 2
Spinach	Spinach		Inorganics	Zinc	128	mg/kg DM	ECN Phyllis 2
Spinach	Spinach		Inorganics	Zinc	142	mg/kg DM	ECN Phyllis 2

Cacao/cocoa	Cacao	Ash type: ISO 1171 (815 degC)	Inorganics	Zinc	90	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Zinc	80	mg/kg DM	ECN Phyllis 2
Cacao/cocoa	Cacao shells		Inorganics	Zinc	829	mg/kg DM	ECN Phyllis 2
Olive	Olive cake		Inorganics	Zinc	29	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Zinc	14.8	mg/kg DM	ECN Phyllis 2
Olive	Olive residue		Inorganics	Zinc	17.9	mg/kg DM	ECN Phyllis 2
Lemon	Sweet lemon pulp	Citrus limetta	Inorganics	Zinc	430	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet pulp	Beta vulgaris	Inorganics	Zinc	22	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Sugar beet	Sugar beet leaves	Beta vulgaris	Inorganics	Zinc	32.5	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Cauliflower	Cauliflower leaves	Brassica oleracea B.	Inorganics	Zinc	40.8	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Cabbage	Cabbage leaves	Brassica oleracea C.	Inorganics	Zinc	48.3	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO

Potato	Potato	Solanum tuberosum L.	Inorganics	Zinc	14.5	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Lemon	Sweet lemon pulp	Citrus limetta, without skin	Inorganics	Zinc	430	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Apple	Apple pomace	Malus domestica	Inorganics	Zinc	14	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Grape	Grape pomace	Namily vitaceae	Inorganics	Zinc	24	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Tomatoes	Tomato pomace	Solanum lycopersicum	Inorganics	Zinc	54	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Banana	Banana peel	Musa acuminata	Inorganics	Zinc	1138	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Melon	Muskmelon, peels	Cucumis melo	Inorganics	Zinc	40	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO

Melon	Watermelon, peels	Citrullus lanatus	Inorganics	Zinc	39.3	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Carrot	Carrot pulp	Daucus carota	Inorganics	Zinc	710	ppm of fruit and veg waste	Utilization of fruit and vegetable wastes, FAO
Rice	Rice mill byproduct		Inorganics	Zinc	31	ppm % ash	2012FeedComp
Rice	Rice husk		Inorganics	Zinc	603	ppm % ash	Combustion behaviour of rice husk in a bubbling fluidised bed
Olive	Olive mill wastewater	Balikesir-Burhaniye region; process: centrifugal	Inorganics	Zinc	1.9	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Balikesir-Edremit region; process: centrifugal	Inorganics	Zinc	4.34	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Olive	Olive mill wastewater	Izmir-Bornova region; process: centrifugal	Inorganics	Zinc	9.5	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey

Olive	Olive mill wastewater	Izmir-Bornova region; process: traditional	Inorganics	Zinc	2.01	g/m3	Comparison of physicochemical characteristics and photofermentative hydrogen production potential of wastewaters produced from different olive oil mills in Western-Anatolia, Turkey
Bolti	Bolti fish	Whole	Inorganics	Zinc	30.95	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate

Bolti	Bolti fish	Flesh only	Inorganics	Zinc	54.39	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Fish, unspecified	Fish protein isolate		Inorganics	Zinc	15.98	mg/100g DM	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Apple	Apple pomace		Inorganics	Zinc	1.99	ppm d.b.	NOSHAN
Apple	Apple pomace, dried	Dried	Inorganics	Zinc	11	ppm d.b.	2012FeedComp
Citrus, unspecified	Citrus pulp, dried		Inorganics	Zinc	14	ppm d.b.	2012FeedComp
Orange	Orange peel	Orange	Inorganics	Zinc	28.3	ppm d.b.	NOSHAN

Citrus, unspecified	Citrus molasses		Inorganics	Zinc	137	ppm d.b.	2012FeedComp
Rice	Rice hull		Inorganics	Zinc	24	ppm d.b.	2012FeedComp
Rice	Rice mill byproduct		Inorganics	Zinc	31	ppm d.b.	2012FeedComp
Cheese	Whey	Milk	Inorganics	Zinc	46.19	ppm d.b.	NOSHAN
Poultry	Feather meal	Hydrolyzed	Inorganics	Zinc	90	ppm d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Inorganics	Zinc	78	ppm d.b.	2012FeedComp
Hop	Hops		Inorganics	Zinc	63.14	ppm d.b.	NOSHAN
Grape	Grape pomace	Stemless	Inorganics	Zinc	24	ppm d.b.	2012FeedComp
Distillers grain	Distillers grain	Wet	Inorganics	Zinc	95	ppm d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Inorganics	Zinc	50	ppm d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Inorganics	Zinc	55	ppm d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Almond	Inorganics	Zinc	20	ppm d.b.	2012FeedComp
Apple	Apple pomace	Wet	Inorganics	Zinc	11	ppm d.b.	2012FeedComp
Banana	Banana		Inorganics	Zinc	8	ppm d.b.	2012FeedComp

Sugar beet	Sugar beet pulp	Wet	Inorganics	Zinc	21	ppm d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Inorganics	Zinc	21	ppm d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Inorganics	Zinc	11	ppm d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Inorganics	Zinc	11	ppm d.b.	2012FeedComp
Sugar beet	Sugar beet tops		Inorganics	Zinc	20	ppm d.b.	2012FeedComp
Sugar beet	Sugar beet tops	Silage	Inorganics	Zinc	20	ppm d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Inorganics	Zinc	22	ppm d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Inorganics	Zinc	290	ppm d.b.	2012FeedComp
Bread	Bread by product		Inorganics	Zinc	40	ppm d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Inorganics	Zinc	78	ppm d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast	Dried	Inorganics	Zinc	41	ppm d.b.	2012FeedComp
Butter	Buttermilk, dried		Inorganics	Zinc	44	ppm d.b.	2012FeedComp

Bread	Calcium carbonate		Inorganics	Zinc	0	ppm d.b.	2012FeedComp
Beef	Cattle manure, dried	Dried	Inorganics	Zinc	240	ppm d.b.	2012FeedComp
Cotton	Cottonseed hulls		Inorganics	Zinc	10	ppm d.b.	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Inorganics	Zinc	66	ppm d.b.	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Inorganics	Zinc	64	ppm d.b.	2012FeedComp
Crab	Crab waste meal		Inorganics	Zinc	107	ppm d.b.	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Inorganics	Zinc	44	ppm d.b.	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Inorganics	Zinc	41	ppm d.b.	2012FeedComp
Distillers grain	Distillers grain	Barley	Inorganics	Zinc	50	ppm d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Inorganics	Zinc	65	ppm d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn, wet	Inorganics	Zinc	65	ppm d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Inorganics	Zinc	85	ppm d.b.	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Inorganics	Zinc	91	ppm d.b.	2012FeedComp

Distillers grain	Distillers corn stillage		Inorganics	Zinc	60	ppm d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Inorganics	Zinc	50	ppm d.b.	2012FeedComp
Fish, unspecified	Fish meal		Inorganics	Zinc	130	ppm d.b.	2012FeedComp
Hop	Hop vine silage		Inorganics	Zinc	44	ppm d.b.	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Inorganics	Zinc	60	ppm d.b.	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Inorganics	Zinc	59	ppm d.b.	2012FeedComp
Poultry	Meat meal	Swine/poultry	Inorganics	Zinc	190	ppm d.b.	2012FeedComp
Sugar beet	Sugar beet molasses		Inorganics	Zinc	18	ppm d.b.	2012FeedComp
Sugar cane	Sugar cane molasses		Inorganics	Zinc	15	ppm d.b.	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Inorganics	Zinc	30	ppm d.b.	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Inorganics	Zinc	30	ppm d.b.	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Inorganics	Zinc	38	ppm d.b.	2012FeedComp
Potato	Potato waste	Wet	Inorganics	Zinc	12	ppm d.b.	2012FeedComp

Potato	Potato waste, dried	Dried	Inorganics	Zinc	12	ppm d.b.	2012FeedComp
Poultry	Poultry by product meal		Inorganics	Zinc	129	ppm d.b.	2012FeedComp
Poultry	Poultry manure, dried	Dried	Inorganics	Zinc	520	ppm d.b.	2012FeedComp
Rice	Rice grain		Inorganics	Zinc	17	ppm d.b.	2012FeedComp
Rice	Rice polishings		Inorganics	Zinc	28	ppm d.b.	2012FeedComp
Rice	Rice bran		Inorganics	Zinc	40	ppm d.b.	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Inorganics	Zinc	65	ppm d.b.	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Inorganics	Zinc	36	ppm d.b.	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Inorganics	Zinc	55	ppm d.b.	2012FeedComp
Sunflower	Sunflower meal	With hulls	Inorganics	Zinc	85	ppm d.b.	2012FeedComp
Sunflower	Sunflower seed hulls		Inorganics	Zinc	200	ppm d.b.	2012FeedComp
Wheat	Wheat hay		Inorganics	Zinc	23	ppm d.b.	2012FeedComp
Wheat	Wheat silage		Inorganics	Zinc	27	ppm d.b.	2012FeedComp
Wheat	Wheat straw		Inorganics	Zinc	6	ppm d.b.	2012FeedComp

Wheat	Wheat straw	Ammoniated	Inorganics	Zinc	6	ppm d.b.	2012FeedComp
Wheat	Wheat grain		Inorganics	Zinc	40	ppm d.b.	2012FeedComp
Wheat	Wheat grain	Hard	Inorganics	Zinc	45	ppm d.b.	2012FeedComp
Wheat	Wheat grain	Soft	Inorganics	Zinc	30	ppm d.b.	2012FeedComp
Wheat	Wheat grain	Steam flaked	Inorganics	Zinc	40	ppm d.b.	2012FeedComp
Wheat	Wheat grain	Sprouted	Inorganics	Zinc	45	ppm d.b.	2012FeedComp
Wheat	Wheat bran		Inorganics	Zinc	96	ppm d.b.	2012FeedComp
Wheat	Wheat middlings		Inorganics	Zinc	98	ppm d.b.	2012FeedComp
Wheat	Wheat mill run		Inorganics	Zinc	90	ppm d.b.	2012FeedComp
Wheat	Wheat shorts		Inorganics	Zinc	118	ppm d.b.	2012FeedComp
Cheese	Whey, dried	Dried	Inorganics	Zinc	10	ppm d.b.	2012FeedComp
Apple	Apple cake		Inorganics	Zinc	7.32	ppm d.b.	NOSHAN
Brewer's yeast/grains, unspecified	Beer yeast		Inorganics	Zinc	<0.01	ppm d.b.	NOSHAN

Brewer's yeast/grains, unspecified	Brewing cake		Inorganics	Zinc	111.4	ppm d.b.	NOSHAN
Cabbage	Cabbage		Inorganics	Zinc	<0.01	ppm d.b.	NOSHAN
Cheese	Cheese	Hard	Inorganics	Zinc	45.56	ppm d.b.	NOSHAN
Cheese	Cheese	Soft	Inorganics	Zinc	53.36	ppm d.b.	NOSHAN
Cheese	Cheese	Soft and hard	Inorganics	Zinc	65.21	ppm d.b.	NOSHAN
Grape	Grape pomace		Inorganics	Zinc	17.8	ppm d.b.	NOSHAN
Barley	Malted barley germs		Inorganics	Zinc	78.77	ppm d.b.	NOSHAN
Mushrooms	Mushrooms		Inorganics	Zinc	<0.01	ppm d.b.	NOSHAN
Olive	Olive pomace		Inorganics	Zinc	47.65	ppm d.b.	NOSHAN
Onion	Onion hulls		Inorganics	Zinc	50.08	ppm d.b.	NOSHAN
Onion	Onion	Slices, fresh	Inorganics	Zinc	21.81	ppm d.b.	NOSHAN
Potato	Potato	Selected	Inorganics	Zinc	28.02	ppm d.b.	NOSHAN
Potato	Potato skin		Inorganics	Zinc	65.77	ppm d.b.	NOSHAN
Rape	Rapeseed press cake		Inorganics	Zinc	74.22	ppm d.b.	NOSHAN
Cabbage	Cabbage	Sour	Inorganics	Zinc	8.74	ppm d.b.	NOSHAN
Sugar beet	Sugar beet, dried	Flakes	Inorganics	Zinc	45.07	ppm d.b.	NOSHAN
Tomatoes	Tomato skin		Inorganics	Zinc	27.57	ppm d.b.	NOSHAN
Apple	Apple	Whole	Inorganics	Zinc	3.94	ppm d.b.	NOSHAN
Pears	Pear	Whole	Inorganics	Zinc	12.29	ppm d.b.	NOSHAN
Yoghurt	Yoghurt		Inorganics	Zinc	31.44	ppm d.b.	NOSHAN

Bakery	Bakery product, dried	Dried	Inorganics	Zinc	33	ppm d.b.	2012FeedComp
Canola	Canola meal	Solv. Ext.	Inorganics	Zinc	68	ppm d.b.	2012FeedComp
Cotton	Cottonseed	Whole	Inorganics	Zinc	34	ppm d.b.	2012FeedComp
Cotton	Cottonseed	Whole, delinted	Inorganics	Zinc	36	ppm d.b.	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Inorganics	Zinc	38	ppm d.b.	2012FeedComp
Grain, unspecified	Grain screenings		Inorganics	Zinc	30	ppm d.b.	2012FeedComp
Grain, unspecified	Grain dust		Inorganics	Zinc	42	ppm d.b.	2012FeedComp
Milk	Milk, dried	Dry, skim	Inorganics	Zinc	41	ppm d.b.	2012FeedComp
Milk	Milk	Holstein Friesian cows, Spain	Inorganics	Zinc	0.463	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology

Milk	Milk	Granadina goats, Spain	Inorganics	Zinc	0.528	mg/100g	Composition of goat and cow milk produced under similar conditions and analyzed by identical methodology
Food, unspecified	Food leftovers	Domestic food waste (UK)	Inorganics	Zinc	7.8	mg/kg	Trace element requirements for stable food waste digestion at elevated ammonia concentrations
Food, unspecified	Food leftovers	Food waste separated from seven local authorities in UK for anaerobic digestion	Inorganics	Zinc	22.31	mg/kg	Valorgas D2.3: A case study for collection schemes serving the South Shropshire Biowaste Digester, Ludlow, UK

Food, unspecified	Food leftovers	Source segregated domestic food waste in Luton, UK	Inorganics	Zinc	8.6	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Source segregated domestic food waste in Hackney, UK	Inorganics	Zinc	11.6	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Source segregated domestic food waste in Ludlow, UK	Inorganics	Zinc	7.8	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Source segregated domestic food waste in Eastleigh, UK	Inorganics	Zinc	6.1	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Zinc	7.1	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Zinc	8.1	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste

Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Zinc	3.6	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Food, unspecified	Food leftovers	Food waste digestates in soton lab without trace element supplementation	Inorganics	Zinc	5.1	mg/l	Valorgas D4.5: Final recommendations for trace element and nutrient supplementation for stable operation of digesters receiving food waste
Rice	Rice husk	Ash	Inorganics	Zinc oxide (ZnO)	0.015	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash

Rice	Rice husk	Silica powder	Inorganics	Zinc oxide (ZnO)	0	%	A study on the consecutive preparation of silica powders and active carbon the rice husk ash
Tomatoes	Tomato skin		Undesirable components	Zoxamid	0.13	mg/kg	NOSHAN
Apple	Apple pomace, dried	Dried	Proximates	eNeutral Detergent Fibre	29	% d.b.	2012FeedComp
Citrus, unspecified	Citrus pulp, dried		Proximates	eNeutral Detergent Fibre	33	% d.b.	2012FeedComp
Cranberry	Cranberry pulp meal		Proximates	eNeutral Detergent Fibre	33	% d.b.	2012FeedComp
Orange	Orange pulp, dried	Orange, dried	Proximates	eNeutral Detergent Fibre	33	% d.b.	2012FeedComp
Citrus, unspecified	Citrus molasses		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Tomatoes	Tomato pomace, dried	Dried	Proximates	eNeutral Detergent Fibre	34	% d.b.	2012FeedComp

Rice	Rice hull		Proximates	eNeutral Detergent Fibre	90	% d.b.	2012FeedComp
Rice	Rice mill byproduct		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Poultry	Feather meal	Hydrolyzed	Proximates	eNeutral Detergent Fibre	23	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Wet	Proximates	eNeutral Detergent Fibre	18	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's yeast		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Grape	Grape pomace	Stemless	Proximates	eNeutral Detergent Fibre	34	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Wet	Proximates	eNeutral Detergent Fibre	4	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, wet	Proximates	eNeutral Detergent Fibre	4	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Sorghum, with solubles	Proximates	eNeutral Detergent Fibre	4	% d.b.	2012FeedComp

Nuts, unspecified	Nut hulls	Almond	Proximates	eNeutral Detergent Fibre	100	% d.b.	2012FeedComp
Apple	Apple		Proximates	eNeutral Detergent Fibre	10	% DM	2012FeedComp
Apple	Apple pomace	Wet	Proximates	eNeutral Detergent Fibre	27	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Wet	Proximates	eNeutral Detergent Fibre	30	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried	Proximates	eNeutral Detergent Fibre	33	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp	Wet with molasses	Proximates	eNeutral Detergent Fibre	33	% d.b.	2012FeedComp
Sugar beet	Sugar beet pulp, dried	Dried with molasses	Proximates	eNeutral Detergent Fibre	33	% d.b.	2012FeedComp
Sugar beet	Sugar beet tops		Proximates	eNeutral Detergent Fibre	41	% d.b.	2012FeedComp
Animal by-products, unspecified	Blood meal	Swine/poultry	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp

Animal by-products, unspecified	Blood meal	Steamed, swine/poultry	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Bread	Bread by product		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Brewer's yeast/grains, unspecified	Brewer's grains	Dried	Proximates	eNeutral Detergent Fibre	18	% d.b.	2012FeedComp
Butter	Buttermilk, dried		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Bread	Calcium carbonate		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Carrot	Carrot pulp		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Carrot	Carrot	Roots, fresh	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Carrot	Carrot tops		Proximates	eNeutral Detergent Fibre	41	% d.b.	2012FeedComp
Beef	Cattle manure, dried	Dried	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp

Coconut	Coconut meal	Mech. Ext.	Proximates	eNeutral Detergent Fibre	23	% d.b.	2012FeedComp
Coffee	Coffee grounds		Proximates	eNeutral Detergent Fibre	10	% d.b.	2012FeedComp
Cotton	Cottonseed hulls		Proximates	eNeutral Detergent Fibre	100	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Solv. Ext. 41% CP	Proximates	eNeutral Detergent Fibre	23	% d.b.	2012FeedComp
Cotton	Cottonseed meal	Mech. Ext. 41% CP	Proximates	eNeutral Detergent Fibre	23	% d.b.	2012FeedComp
Crambe	Crambe meal	Solv. Ext.	Proximates	eNeutral Detergent Fibre	23	% d.b.	2012FeedComp
Crambe	Crambe meal	Mech. Ext	Proximates	eNeutral Detergent Fibre	25	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Barley	Proximates	eNeutral Detergent Fibre	4	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Corn, dry	Proximates	eNeutral Detergent Fibre	4	% d.b.	2012FeedComp

Distillers grain	Distillers grain	Corn, wet	Proximates	eNeutral Detergent Fibre	4	% d.b.	2012FeedComp
Distillers grain	Distillers grain	Corn with solubles	Proximates	eNeutral Detergent Fibre	4	% d.b.	2012FeedComp
Distillery by-products, unspecified	Distillers solubles, dried	Dried	Proximates	eNeutral Detergent Fibre	4	% d.b.	2012FeedComp
Distillers grain	Distillers corn stillage		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Distillers grain	Distillers grain, dried	Sorghum, dry	Proximates	eNeutral Detergent Fibre	4	% d.b.	2012FeedComp
Fish, unspecified	Fish meal		Proximates	eNeutral Detergent Fibre	10	% d.b.	2012FeedComp
Flax/linseed	Flax seed hulls		Proximates	eNeutral Detergent Fibre	98	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Solv.Ext	Proximates	eNeutral Detergent Fibre	23	% d.b.	2012FeedComp
Flax/linseed	Linseed meal	Mech.Ext	Proximates	eNeutral Detergent Fibre	23	% d.b.	2012FeedComp

Poultry	Meat meal	Swine/poultry	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Sugar beet	Sugar beet molasses		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Sugar cane	Sugar cane molasses, dried	Dried	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Sugar by-products, unspecified	Molasses	Cond. Fermentation Solubles	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Nuts, unspecified	Nut hulls	Peanut	Proximates	eNeutral Detergent Fibre	98	% d.b.	2012FeedComp
Nuts, unspecified	Nut meal	Peanut. Solv.ext.	Proximates	eNeutral Detergent Fibre	23	% d.b.	2012FeedComp
Nuts, unspecified	Nut skins	Peanut	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Pineapple	Pineapple greenchop		Proximates	eNeutral Detergent Fibre	41	% d.b.	2012FeedComp

Pineapple	Pineapple bran		Proximates	eNeutral Detergent Fibre	20	% d.b.	2012FeedComp
Pineapple	Pineapple presscake		Proximates	eNeutral Detergent Fibre	20	% d.b.	2012FeedComp
Potato	Potato	Cull	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Potato	Potato waste	Wet	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Potato	Potato waste, dried	Dried	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Potato	Potato waste	Wet with lime	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Poultry	Poultry manure, dried	Dried	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Rice	Rice straw		Proximates	eNeutral Detergent Fibre	100	% d.b.	2012FeedComp
Rice	Rice straw	Ammoniated	Proximates	eNeutral Detergent Fibre	100	% d.b.	2012FeedComp

Rice	Rice grain		Proximates	eNeutral Detergent Fibre	34	% d.b.	2012FeedComp
Rice	Rice bran		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Safflower	Safflower meal	Solv. Ext.	Proximates	eNeutral Detergent Fibre	36	% d.b.	2012FeedComp
Safflower	Safflower meal	Dehulled, Solv. Ext.	Proximates	eNeutral Detergent Fibre	30	% d.b.	2012FeedComp
Safflower	Safflower hulls		Proximates	eNeutral Detergent Fibre	100	% d.b.	2012FeedComp
Sunflower	Sunflower meal	Solv. Ext.	Proximates	eNeutral Detergent Fibre	23	% d.b.	2012FeedComp
Sunflower	Sunflower meal	With hulls	Proximates	eNeutral Detergent Fibre	37	% d.b.	2012FeedComp
Sunflower	Sunflower seed hulls		Proximates	eNeutral Detergent Fibre	90	% d.b.	2012FeedComp
Sugar cane	Sugar cane bagasse		Proximates	eNeutral Detergent Fibre	100	% d.b.	2012FeedComp

Wheat	Wheat	Fresh, pasture	Proximates	eNeutral Detergent Fibre	41	% d.b.	2012FeedComp
Wheat	Wheat hay		Proximates	eNeutral Detergent Fibre	98	% d.b.	2012FeedComp
Wheat	Wheat silage		Proximates	eNeutral Detergent Fibre	61	% d.b.	2012FeedComp
Wheat	Wheat straw		Proximates	eNeutral Detergent Fibre	98	% d.b.	2012FeedComp
Wheat	Wheat straw	Ammoniated	Proximates	eNeutral Detergent Fibre	98	% d.b.	2012FeedComp
Wheat	Wheat grain		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Wheat	Wheat grain	Hard	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Wheat	Wheat grain	Soft	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Wheat	Wheat grain	Steam flaked	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp

Wheat	Wheat grain	Sprouted	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Wheat	Wheat bran		Proximates	eNeutral Detergent Fibre	4	% d.b.	2012FeedComp
Wheat	Wheat middlings		Proximates	eNeutral Detergent Fibre	2	% d.b.	2012FeedComp
Wheat	Wheat mill run		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Wheat	Wheat shorts		Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Cheese	Whey, dried	Dried	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Bakery	Bakery product, dried	Dried	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Canola	Canola meal	Solv. Ext.	Proximates	eNeutral Detergent Fibre	23	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole	Proximates	eNeutral Detergent Fibre	100	% d.b.	2012FeedComp

Cotton	Cottonseed	Whole, delinted	Proximates	eNeutral Detergent Fibre	100	% d.b.	2012FeedComp
Cotton	Cottonseed	Whole, extruded	Proximates	eNeutral Detergent Fibre	33	% d.b.	2012FeedComp
Animal by-products, unspecified	Meat and bone meal	Swine/poultry	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Milk	Milk, dried	Dry, skim	Proximates	eNeutral Detergent Fibre	0	% d.b.	2012FeedComp
Grape	Grape cane	Alphone Lavallee	Cinnamic acid derivatives	p-Coumaric Acid	1.04	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Atasarisi	Cinnamic acid derivatives	p-Coumaric Acid	2.76	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Cardinal	Cinnamic acid derivatives	p-Coumaric Acid	2.16	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Hafizali	Cinnamic acid derivatives	p-Coumaric Acid	2.72	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Horoz Karasi	Cinnamic acid derivatives	p-Coumaric Acid	0.9	µg/100g cane	Chemical composition of grape canes

Grape	Grape cane	Isabella	Cinnamic acid derivatives	p-Coumaric Acid	1.98	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Italia	Cinnamic acid derivatives	p-Coumaric Acid	2.68	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Sultani Cekirdeksiz	Cinnamic acid derivatives	p-Coumaric Acid	3.5	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Tekirday Cekirdeksiz	Cinnamic acid derivatives	p-Coumaric Acid	0.92	µg/100g cane	Chemical composition of grape canes
Grape	Grape cane	Trakya Ilkeren	Cinnamic acid derivatives	p-Coumaric Acid	1.88	µg/100g cane	Chemical composition of grape canes
Coffee	Coffee grounds	Spent coffee grounds, medium roasted, arabica	Cinnamic acid derivatives	p-Coumaric Acid	0.01	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro

Coffee	Coffee grounds	Spent coffee grounds, dark roasted, arabica	Cinnamic acid derivatives	p-Coumaric Acid	0.01	mg/g	Spent coffee grounds, an innovative source of colonic fermentable compounds, inhibit inflammatory mediators in vitro
Apple	Apple pomace		Waste compounds	pH	3.81	N/A	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace

Grape	Grape pomace		Waste compounds	pH	3.85	N/A	Fermentation characteristics, aerobic stability, proteolysis and lipid composition of alfalfa silage ensiled with apple or grape pomace
Bamboo	Bamboo shoot shells		Waste compounds	pH	5.78	N/A	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep

Rice	Rice straw		Waste compounds	pH	6.1	N/A	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Wheat	Wheat bran		Waste compounds	pH	5.1	N/A	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep

Bamboo	Bamboo shoot shells	Ensiled	Waste compounds	pH	5.08	N/A	Addition of rice straw or/and wheat bran on composition, ruminal degradability and voluntary intake of bamboo shoot shells silage fed to sheep
Cheese	Whey	Cheese	Waste compounds	pH	5	N/A	Amelioration of lactic acid production from cheese whey using micro-aeration
Sugar by-products, unspecified	Wastewater	1h settled	Waste compounds	pH	6.82	N/A	Anaerobic acidification of sugar-beet processing wastes: Effect of operational parameters
Olive	Olive mill effluent		Waste compounds	pH	4.6	N/A	Bioenergy recovery from olive mill effluent in a hybrid reactor

Pork	Piggery effluent		Waste compounds	pH	7.2	N/A	Bioenergy recovery from olive mill effluent in a hybrid reactor
Olive	Olive tree pruning	Liquid fraction derived from organosolv pretreatment	Waste compounds	pH	4.58	N/A	Biorefining of olive tree (Olea europea) pruning
Wheat	Wheat	Silage. Location: centre	Waste compounds	pH	3.8	N/A	Changes during aerobic exposure of wheat silages
Wheat	Wheat	Silage. Location: wall	Waste compounds	pH	4	N/A	Changes during aerobic exposure of wheat silages
Wheat	Wheat	Silage. Location: shoulder	Waste compounds	pH	6.6	N/A	Changes during aerobic exposure of wheat silages
Wheat	Wheat	Silage. Location: SEM	Waste compounds	pH	0.9	N/A	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: centre	Waste compounds	pH	4	N/A	Changes during aerobic exposure of wheat silages

Corn	Corn silage	Location: wall	Waste compounds	pH	4.2	N/A	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: shoulder	Waste compounds	pH	7.2	N/A	Changes during aerobic exposure of wheat silages
Corn	Corn silage	Location: SEM	Waste compounds	pH	1	N/A	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: centre	Waste compounds	pH	4.1	N/A	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: wall	Waste compounds	pH	4.2	N/A	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: shoulder	Waste compounds	pH	6.6	N/A	Changes during aerobic exposure of wheat silages
Sorghum	Sorghum silage	Location: SEM	Waste compounds	pH	2.1	N/A	Changes during aerobic exposure of wheat silages

Grape	Grape pomace	Whole. White, Italian	Waste compounds	pH	3.98	N/A	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pomace	Whole. Red, Italian	Waste compounds	pH	4.13	N/A	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces

Grape	Grape pomace	Whole. Not ensiled	Waste compounds	pH	3.92	N/A	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Grape	Grape pomace	Whole. Ensiled for 45 days	Waste compounds	pH	4.2	N/A	Chemical composition, including secondary metabolites and rumen fermentability of seeds and pulp of Californian (USA) and Italian grape pomaces
Orange	Orange peel	Fresh	Waste compounds	pH	3.64	N/A	Citrus by-products as ruminant feeds: A review

Orange	Orange peel silage		Waste compounds	pH	3.10	N/A	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp silage		Waste compounds	pH	3.50	N/A	Citrus by-products as ruminant feeds: A review
Orange	Orange pulp	Fresh	Waste compounds	pH	3.70	N/A	Citrus by-products as ruminant feeds: A review
Abattoir wastes, unspecified	Abattoir raw effluent		Waste compounds	pH	7.53	N/A	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	F-layout	Waste compounds	pH	6.9	N/A	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Kpakungu	Waste compounds	pH	7.4	N/A	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, receiving streams	Chanchaga	Waste compounds	pH	7.2	N/A	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, receiving streams	Maitumbi	Waste compounds	pH	7.8	N/A	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	F-layout	Waste compounds	pH	6.8	N/A	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Kpakungu	Waste compounds	pH	6.9	N/A	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, hand dug wells	Chanchaga	Waste compounds	pH	8.1	N/A	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, hand dug wells	Maitumbi	Waste compounds	pH	6.9	N/A	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	F-layout	Waste compounds	pH	6.8	N/A	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Abattoir wastes, unspecified	Abattoir, bore holes	Maitumbi	Waste compounds	pH	7.1	N/A	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria
Abattoir wastes, unspecified	Abattoir, bore holes	Maikunkele	Waste compounds	pH	7.8	N/A	Abattoir wastes generation, management and the environment: a case on Minna, North Central Nigeria

Beef	Solid cattle slaughterhouse wastes		Waste compounds	pH	5.87	N/A	Anaerobic co-digestion of solid slaughterhouse wastes with agro-residues: Synergistic and antagonistic interactions determined in batch digestion assays
Bolti	Bolti fish	Whole	Waste compounds	pH	6.43	N/A	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate

Bolti	Bolti fish	Flesh only	Waste compounds	pH	6.3	N/A	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Fish, unspecified	Fish protein isolate		Waste compounds	pH	5.7	N/A	Chemical composition, minerals content, amino acids bioavailability and sensory properties of meat and fish balls containing fish protein isolate
Poultry	Hatchery waste		Waste compounds	pH	7	N/A	Composition of Australian meat chicken hatchery waste

Greenhouse waste	Biochar from a blend of greenhouse waste (tomato leaves and stems) and clean wood	Biochar produced in the large scale gasifier at ECN, from a blend of greenhouse waste (tomato residues see ID 3517) and clean wood (20 - 80 % in weight), gasification temp. @670°C	Waste compounds	pH	11	N/A	ECN Phyllis 2
Bamboo	Biochar from bamboo stems	Bambusa vulgaris. Biochar produced at ECN, pyrolysed slowly at 400°C for 60 min in an auger type (screw) pyrolyser (Pyromaat)	Waste compounds	pH	6.4	N/A	ECN Phyllis 2

Green waste	Biochar from green waste	Product from large scale gasification at 670°C	Waste compounds	pH	8.5	N/A	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues 600/60/0. Combustion temperature: 600°C, 60 minutes, 0% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	pH	9.2	N/A	ECN Phyllis 2

Green waste	Biochar from greenhouse waste	Pepper residues 600/60/1. Combustion temperature: 600°C, 60 minutes, 1% oxygen. Greenhouse waste biochar produced in the slow pyrolysis unit at ECN from greenhouse residues of pepper	Waste compounds	pH	9	N/A	ECN Phyllis 2
Green waste	Biochar from greenhouse waste	Pepper residues under gasification. Combustion temperature: gasification at 750°C	Waste compounds	pH	11.5	N/A	ECN Phyllis 2

Apple	Apple pomace, dried	Powder	Waste compounds	pH	4.2	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Saccharomyces	Waste compounds	pH	3.9	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Apple	Apple pomace, dried	Powder, fermented with Candida	Waste compounds	pH	3.71	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace

Apple	Apple pomace, dried	Powder, fermented with Torula	Waste compounds	pH	3.75	1:10 diluted apple pomace	Preparation and evaluation of an animal feed byproduct produced by solid-state fermenation of apple pomace
Grape	Grape pomace	Skin and seeds, white grape	Waste compounds	pH	3.86	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants
Grape	Grape pomace	Skin and seeds, red grape	Waste compounds	pH	3.93	g/kg DM	Chemical composition and digestibility of dried white and red grape pomace for ruminants

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Luton, UK	Waste compounds	pH	5.12	-	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Hackney, UK	Waste compounds	pH	5.18	-	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Ludlow, UK	Waste compounds	pH	4.71	-	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Eastleigh, UK	Waste compounds	pH	5.02	-	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Forssa, Finland	Waste compounds	pH	5.34	-	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Food waste obtained from collection rounds in Treviso, Italy	Waste compounds	pH	6.16	-	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe

Food, unspecified	Food leftovers	Food waste (to digester) obtained from collection rounds in Lisbon, Portugal	Waste compounds	pH	5.93	-	Valorgas D2.1: Compositional analysis of food waste from study sites in geographically distinct regions of Europe
Food, unspecified	Food leftovers	Domestic food waste from Ludlow, UK	Waste compounds	pH	5.01	-	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment

Food, unspecified	Food leftovers	Autoclaved (160C, 6.2 bars) domestic food waste from Ludlow, UK	Waste compounds	pH	5.02	-	Valorgas D3.3: Biokinetic and biosecurity data and operating protocols from optimisation of autoclave and cell disruption pre-treatment