

LP20

Lupine protein isolate, fresh

Item Code: 46020

Product description

Protein isolate as food ingredient gained by aqueous extraction from seeds of the Blue Sweet Lupine (*Lupinus angustifolius*).

Ingredient listing

100% Blue Sweet Lupin (*Lupinus angustifolius*).

Country of origin

Made in Germany from 100% Blue Sweet Lupin

Sensory analysis

Colour	beige to brownish
Texture	creamy high viscous fluid
Odour	typical, slightly grainy
Taste	fairly neutral to grassy

Physico-chemical quality criteria

Protein	17 - 21 %
Dry matter	17 - 21 %
pH value	4.3 -4.6
Water solubility	mixable, ca. 1,5 ml/g
Emulsifying	> 650 ml/g
Oil binding	2.8 ml/g
Alkaloids	< 40 mg/kg

Microbiological specification

Aerobic mesophilic count	< 10 ⁷ CFU/g
Yeasts and mould	< 10 ⁵ CFU/g
Bacillus cereus	< 10 ⁴ CFU/g
Enterobacteriaceae	< 10 ⁴ CFU/g
Escherichia coli	< 10 CFU/g
Salmonella	absent in 25 g
Listeria monocytogenes	absent in 25 g
Coagulase positive staphylococci	< 10 ² CFU/g

Treatment method

aqueous extraction

Transport/Storage/Remaining shelf life

Refrigerated transport	2 - 6 °C
Storage conditions	Unopened at < 6 °C
Shelf life in days	9

Allergenic statement

The product contains **lupine** corresponding to appendix 2 of the European Food Information Regulation No. 1169/2011. May contains: **gluten (wheat), soy**.

Ø Nutrition information per 100 g

Energy	310 - 320 kJ 74 - 79 kcal
Fat	0.4 - 0.5 g
- of which saturates	0.1 - 0.4 g
Carbohydrates	0.1 - 0.2 g
- of which sugars	<0.5 g
Fibres	0.5 - 0.8 g
Protein	17 - 21 g
Salt	0.08 - 0.15 g

Nutritional information

Vegetarian	Yes
Vegan	Yes
Organic	No

GMO statement

It is confirmed that the product does not contain or consist of genetically modified organisms (GMOs) in accordance with Regulation (EC) 1829/2003 and (EC) 1830/2003. It also contains no ingredients that are made from GMOs.

Amino acids

Alanine	0.52 - 0.73 g/100g Product
Arginine	1.71 - 2.59 g/100g Product
Aspartic acid	1.68 - 2.46 g/100g Product
Cysteine	0.20 - 0.27 g/100g Product
Glutamic acid	3.62 - 5.55 g/100g Product
Glycine	0.65 - 0.92 g/100g Product
Histidine	0.39 - 0.57 g/100g Product
Hydroxyprolin	Not detectable
Isoleucine	0.65 - 1.03 g/100g Product
Leucine	1.16 - 1.71 g/100g Product
Lysin	0.69 - 1.00 g/100g Product
Methionine	0.09 - 0.11 g/100g Product
Ornithine	Not detectable
Phenylalanine	0.64 - 0.99 g/100g Product
Proline	0.65 - 0.88 g/100g Product
Serine	0.79 - 1.20 g/100g Product
Threonine	0.54 - 0.76 g/100g Product
Tyrosine	0.59 - 0.85 g/100g Product
Valine	0.57 - 0.88 g/100g Product
Tryptophan	0.15 - 0.19 g/100g Product

Share of amino acids

3.2 - 3.4 %
11.1 - 11.8 %
10.5 - 10.9 %
1.2 - 1.6 %
23.0 - 24.5 %
4.0 - 4.2 %
2.5 - 2.7 %
Not detectable
4.2 - 4.7 %
7.5 - 7.8 %
4.4 - 4.9 %
0.4 - 0.6 %
Not detectable
4.1 - 4.4 %
3.9 - 4.3 %
5.0 - 5.3 %
3.2 - 3.6 %
3.7 - 4.0 %
3.7 - 4.1 %
0.8 - 1.0 %

Typical minerals

Jodine	<0.25 mg/kg
Calcium	236 - 252 mg/kg
Potassium	10 - 53 mg/kg
Iron	15 - 32 mg/kg
Copper	3 - 25 mg/kg
Magnesium	45 - 68 mg/kg
Manganese	4 - 5 mg/kg
Phosphor	1600 - 1905 mg/kg
Zinc	4 - 6 mg/kg
Sodium	369 - 678 mg/kg
Chrome	<0.05 mg/kg
Fluoride	<10 mg/kg