

**LP90**

Lupine protein isolate, spray dried

Item Code: 46000

**Product description**

Spray dried, free flowing protein isolate as food ingredient gained 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	white beige to light yellow
Odour	neutral to slightly grainy
Taste	fairly neutral

**Physico-chemical quality criteria**

Protein	> 90 %
Dry matter	> 95 %
pH value	6.5 - 7.5
Protein solubility	> 60 %
Emulsifying	> 650 ml/g
Oil binding	1.5 ml/g

**Microbiological specification**

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

**Treatment method**

Spray drying

**Transport/storage/remaining shelf life**

Transport	< 20 °C
Storage conditions	Unopened at < 20 °C and < 60 % RH
Shelf life in days	720

**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	1582 - 1615 kJ 373 - 381 kcal
Fat	2.2 - 2.3 g
- of which saturates	0.7 - 1.1 g
Carbohydrates	< 0.5 g
- of which sugars	< 0.5 g
Fibres	2.0 - 3.5 g
Protein	90 - 95 g
Salt	3.88 - 4.75 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	2.92 - 2.96 g/100g Product
Arginine	9.61 - 9.86 g/100g Product
Aspartic acid	9.74 - 9.75 g/100g Product
Cysteine	1.10 - 1.20 g/100g Product
Glutamic acid	20.70 - 21.10 g/100g Product
Glycine	3.61 - 3.72 g/100g Product
Histidine	2.18 - 2.28 g/100g Product
Hydroxyprolin	Not detectable
Isoleucine	3.86 - 3.99 g/100g Product
Leucine	6.55 - 6.66 g/100g Product
Lysin	3.85 - 3.91 g/100g Product
Methionine	0.48 - 0.53 g/100g Product
Ornithine	Not detectable
Phenylalanine	3.53 - 3.74 g/100g Product
Proline	3.68 - 3.80 g/100g Product
Serine	4.41 - 4.56 g/100g Product
Threonine	2.99 - 3.12 g/100g Product
Tyrosine	3.08 - 3.68 g/100g Product
Valine	3.38 - 3.50 g/100g Product
Tryptophan	0.80 - 0.82 g/100g Product

**Share of amino acids**

3.3 - 3.4 %
11.0 - 11.1 %
11.0 - 11.2 %
1.2 - 1.4 %
23.7 - 23.8 %
4.1 - 4.2 %
2.5 - 2.6 %
Not detectable
4.4 - 4.6 %
7.4 - 7.6 %
4.3 - 4.5 %
0.5 - 0.6 %
Not detectable
4.1 - 4.2 %
4.2 - 4.3 %
4.5 - 5.0 %
3.4 - 3.6 %
3.5 - 4.2 %
3.9 - 4.0 %
0.8 - 1.0 %

**Typical minerals**

Jodine	<0.25 mg/kg
Calcium	1250 - 1436 mg/kg
Potassium	100 - 530 mg/kg
Iron	140 - 320 mg/kg
Copper	3 - 25 mg/kg
Magnesium	210 - 480 mg/kg
Manganese	21 - 35 mg/kg
Phosphor	8000 - 11000 mg/kg
Zinc	22 - 51 mg/kg
Sodium	15500 - 19000 mg/kg
Chromium	< 0.1 mg/kg
Flourine	< 10 mg/kg