



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 (<i>Lupinus angustifolius</i>).
Ingredient listing:	100% Blue Sweet Lupin (<i>Lupinus angustifolius</i>)
Country of origin:	Made in Germany from 100% Sweet Blue Lupin

Sensory Analysis

Colour	white beige to light yellow
Odour	neutral to slightly grainy
Taste	fairly neutral

Physio-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 ⁴ CFU/g
Yeasts and Mould	< 10 ² CFU/g
Bacillus cereus	< 5 x 10 ² CFU/g
Enterobacteriaceae	< 10 ² 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

Spray drying

Allergy Status

The product contains lupine corresponding to appendix 2 of the European Food Information Regulation No. 1169/2011.

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.

Nutrition Information per 100g

Energy	1612 - 1734 kJ 380 - 409 kcal
Fat	2 - 3 g
– of which saturates	0.6 - 1.5 g
Carbohydrates	< 0.5 g
– of which sugars	< 0.5 g
Fibres	0 - 3.5 g
Protein	90 - 95 g
Sodium	1 - 2 g

Additional Claims

Vegetarian	Yes
Vegan	Yes
Organic	No



Packaging

Bag	15kg Kraft bag
Pallet	Type of pallet: wooden Euro, 1.2m x 0.8m Number of layers: 11 Bags per layer: 3 Bags per pallet: 33 Pallet pattern: interlocking Gross weight/pallet: 530kg Net weight/pallet: 495kg Stacked height: 2.0m Number of Bags/layer: 3 Layers /pallet: 11
Container	11 pallets / 20 foot container (gross 5.83T, net 5.445T)

Transport/storage/remaining shelf life

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

Amino Acids	per 100 g product	Share of Amino Acids
Alanine	2.92 - 2.96 g	3.3 - 3.4 %
Arginine	9.61 - 9.86 g	11.0 - 11.1 %
Aspartic Acid	9.74 - 9.75 g	11.0 - 11.2 %
Cysteine	1.10 - 1.20 g	1.2 - 1.4 %
Glutamic Acid	20.70 - 21.10 g	23.7 - 23.8 %
Glycine	3.61 - 3.72 g	4.1 - 4.2 %
Histidine	2.18 - 2.28 g	2.5 - 2.6 %
Hydroxyproline	Not detectable	Not detectable
Isoleucine	3.86 - 3.99 g	4.4 - 4.6 %
Leucine	6.55 - 6.66 g	7.4 - 7.6 %
Lysin	3.85 - 3.91 g	4.3 - 4.5 %
Methionine	0.48 - 0.53 g	0.5 - 0.6 %
Ornithine	Not detectable	Not detectable
Phenylalanine	3.53 - 3.74 g	4.1 - 4.2 %
Proline	3.68 - 3.80 g	4.2 - 4.3 %
Serine	4.41 - 4.56 g	4.5 - 5.0 %
Threonine	2.99 - 3.12 g	3.4 - 3.6 %
Tyrosine	3.08 - 3.68 g	3.5 - 4.2 %
Valine	3.38 - 3.50 g	3.9 - 4.0 %
Tryptophan	0.80 - 0.82 g	0.8 - 1.0 %