

Protein Specification (002)

upgrain



Physical & chemical properties:

Declaration:	Barley protein
Ingredients:	Barley protein
Appearance:	Beige powder
Taste:	Typical, cereals
Odor:	Typical, cereal
Moisture:	Max. 12.0%
Protein Content:	45 %
Fiber content:	31 %
Minerals:	3.2 % - 4.0 %
Country of origin:	Switzerland (CH)
Country of production:	Switzerland (CH)
Particle size:	(d90) <125µm
Best before:	18 months

Storage and transportation:

Conditions:	Cool and dry
Standard Packaging:	Valve bags, Big bag, Loose

Allergen information:

Contains:	Gluten
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Product and Regulatory Declarations:

Customs tariff code (HS):	2303.300
GMO:	No genetically modified organisms.
Irradiation:	No
Additives/Preservatives:	No
Vegan/Vegetarian:	Yes
Processing:	Mechanical separation and drying

Certifications:

Halal Certification:	Yes
Kosher Certification:	Yes
CH Organic Regulation:	Yes, CH-BIO-006 · Certificate No. BVH-60348
FSSC22000:	Available from manufacturer (Brauerei Locher AG)
FSSC22000:	Available from packer

Legal clarifications:

CH	The product complies with the requirements of the regulations from the FDHA on maximum contaminant levels (Kontaminantenverordnung, VHK) of February 1, 2024, and the Guidelines on Compliance with EU Food Information Legislation, December 2012.
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EU	The product is not subject to labeling requirements according to regulation (EC) No. 1829/2003 and 1830/2003 of the European Parliament and Council.
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Mycotoxins:

Total aflatoxins (B1+B2+G1+G2)	4 µg	/kg
with processing factor	<12 µg	/kg
Ochratoxin A	3 µg	/kg
with processing factor	<9 µg	/kg

Microbiology:

Aerobic mesophilic total bacterial count	<10 ⁶	Kbe/g
Escherichia coli	<10	Kbe/g
Bacillus cereus	<10 ³	Kbe/g
Coagulase-positive staphylococci	<10 ³	Kbe/g
Spores of sulphite-reducing clostridia	<10 ³	Kbe/g
Salmonella spp.	n.n	in 25g
Yeasts and molds (total)	<100	Kbe/g

Nutrients (Big 8):

Calorific value	1517 kJ	/100 g
Calories	364 kcal	/100 g
Protein (Nx6.25)	44.90 g	/100 g
Carbohydrates	1.0 g	/100 g
of which sugar	0.56 g	/100 g
of which lactose	<0.1 g	/100 g
Fat	13.2 g	/100 g
of which saturated fatty acids	3.7 g	/100 g
Dietary fiber	31.0 g	/100 g
Common salt NaCl	0.001 g	/100 g
of which sodium NA	0.0004 g	/100 g
Fatty acids Totals:		
Saturated fatty acids	3.7 g	/100 g
Monounsaturated fatty acids	2.69 g	/100 g
Omega-3 fatty acids	1.25 g	/100 g
Omega-6 fatty acids	11.2 g	/100 g

Total amino acids:

Alanine ALA	1.97 g	/100 g
Arginine ARG	2.30 g	/100 g
Aspartic acid ASP	2.95 g	/100 g
Cystine CYS2	0.88 g	/100 g
Glutamic acid GLU	9.29 g	/100 g
Glycine GLY	1.64 g	/100 g
Histidine HIS	0.96 g	/100 g
Isoleucine ILE	1.99 g	/100 g
Leucine LEU	3.47 g	/100 g
Lysine LYS	1.82 g	/100 g
Methionine MET	0.87 g	/100 g
Phenylalanine PHE	2.49 g	/100 g
Proline PRO	4.38 g	/100 g
Serine SER	1.73 g	/100 g
Threonine THR	1.51 g	/100 g
Tryptophan TRY	0.65 g	/100 g
Tyrosine TYR	1.56 g	/100 g
Valine VAL	2.51 g	/100 g

Vitamins:

Vitamin B12 (Cyanocobalamin)	0.8 µg	/100 g
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Elements:

Calcium Ca	3290 mg	/kg
Iron Fe	191 mg	/kg
Magnesium Mg	1360 mg	/kg
Phosphorus P	6900 mg	/kg
Zinc Zn	83 mg	/kg

Nutritional value per 100g

Energy	1517 kJ	/100 g
	364 kcal	/100 g
Protein	44.90 g	/100 g
Carbohydrates	1.0 g	/100 g
Of which sugars	0.55 g	/100 g
Fat	13.20 g	/100 g
Of which saturated fatty acids	3.70 g	/100 g
Dietary fiber	31.0 g	/100 g
Common Salt (NaCl)	0.001 g	/100 g