

Protein Specifications

upgrain



Physical & chemical properties:

Declaration:	Barley protein
Ingredients:	Barley protein
Appearance:	Beige powder
Taste:	Typical, cereals
Odor:	Typical, cereal
Moisture:	max. 8.5 %
pH-Value:	3.8 - 5.2
Protein Content:	45 %
Fiber content:	31.3 %
Minerals:	3.2 % - 4.0 %
Country of origin:	Switzerland (CH)
Country of production:	Switzerland (CH)
GMO:	No genetically modified organisms.
Vegan/Vegetarian:	yes
Particle size:	(d90) < 125 µm
Best before:	18 months
Organic variant:	expected in 2025

Storage and transportation conditions:

cool and dry

Allergen information:

Contains: gluten

Certifications:

Halal Certification:	Yes
Kosher Certification:	Yes
CH Organic Regulation:	In clarification
FSSC22000:	Available from manufacturer (Brauerei Locher AG) Available from packer (Löffel Mühlen AG)

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.

EU The product is not subject to labeling requirements according to regulation (EG) No. 1829/2003 and 1830/2003 of the European Parliament and Council.

Nutrients (Big 8):

Calorific value	1517 kJ	/100 g
Calories	364 g	/100 g
Protein (Nx6.25)	44.90 g	/100 g
Carbohydrates	1 g	/100 g
of which sugar	0.55 g	/100 g
of which lactose	<0.10 g	/100 g
Fat	13.20 g	/100 g
of which saturated fatty acids	3.70 g	/100 g
Dietary fiber	31 g	/100 g
Common salt NaCl	< 0.01 g	/100 g
of which sodium NA	< 0.001 g	/100 g

Fatty acids Totals:

Saturated fatty acids	3.70 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	1.9 g	/100 g
Arginine	ARG	2.3 g	/100 g
Aspartic acid	ASP	3 g	/100 g
Cystine	CYS2	0.73 g	/100 g
Glutamic acid	GLU	9.9 g	/100 g
Glycine	GLY	1.8 g	/100 g
Histidine	HIS	0.98 g	/100 g
Isoleucine	ILE	2 g	/100 g
Leucine	LEU	3.6 g	/100 g
Lysine	LYS	1.6 g	/100 g
Methionine	MET	0.76 g	/100 g
Phenylalanine	PHE	2.7 g	/100 g
Proline	PRO	5.1 g	/100 g
Serine	SER	2.1 g	/100 g
Threonine	THR	1.7 g	/100 g
Tryptophan	TRY	0.72 g	/100 g
Tyrosine	TYR	1.7 g	/100 g
Valine	VAL	2.2 g	/100 g

Vitamins:

Vitamin B12 (cyanocobalamin)	0.8 µg	/100 g
------------------------------	--------	--------

Elements:

Calcium	Ca	3400 mg	/kg
Iron	Fe	158 mg	/kg
Magnesium	Mg	1850 mg	/kg
Phosphorus	P	6400 mg	/kg
Zinc	Zn	131 mg	/kg

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 ²	Kbe/g
Spores of sulphite-reducing clostridia	<10 ²	Kbe/g
Salmonella spp.	n.n	in 25g
Yeasts and molds (total)	<100	Kbe/g

Nutritional value per 100g

Energy	1517 kJ	/100 g
	364 kcal	/100 g
Protein	44.90 g	/100 g
Carbohydrates	1 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 g	/100 g
Common Salt (NaCl)	< 0.01 g	/100 g