

## Upgrain Fiber specification

### Physical & chemical properties:

Declaration:	Barley fiber
Ingredients:	Barley fiber
Appearance:	Beige powder
Taste:	Typical, cereals
Odor:	Typical, cereal
Moisture:	8%-9.5%
pH-Value:	3.8-5.2
Protein Content:	Min. 10%
Fiber content:	Min. 69%
Minerals:	3.2%-4.0%
Country of origin:	Switzerland (CH)
Country of production:	Switzerland (CH)
GMO:	No. The product does not consist of genetically modified organisms.

Particle size:	(d90) 80-150µm or (d90) 350-450µm.
Organic variant:	In clarification.
Conventional Variant:	Yes, possible.

### Certifications:

Halal Certification:	In clarification
Kosher Certification:	In clarification
Bio-Suisse:	In clarification
FSSC22000:	Yes, available.

### Legal clarifications:

CH The product complies with the requirements of the regulations from the FDHA on maximum contaminant levels (Kontaminantenverordnung, VHK) of December 16, 2016.

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.

### Nutritional value per 100 g

Energy	1'010 kJ /100 g	248 kcal /100 g
Protein	10.40 g /100 g	
Carbohydrates	1.50 g /100 g	
of which sugars	<0.10 g /100 g	
Fat	6.90 g /100 g	
of which saturated fatty acids	1.93 g /100 g	
Dietary fiber	69.20 g /100 g	
Common Salt (NaCl)	0.001 g /100 g	

### Nutrients (Big 8):

Caloric value		1'010 kJ /100 g
Calories		248 kcal /100 g
Protein (Nx6.25)		10.4 g /100 g
Carbohydrates		1.5 g /100 g
of which sugar		<0.10 g /100 g
of which lactose		<0.10 g /100 g
Fat		6.9 g /100 g
of which total fatty acids		1.93 g /100 g
Dietary fiber		69.2 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	1.93 g /100 g
Monounsaturated fatty acids	0.83 g /100 g
Polyunsaturated fatty acids	4.07 g /100 g
Omega-3 fatty acids	0.395 g /100 g
Omega-6 fatty acids	3.68 g /100 g

### Total amino acids:

Alanine ALA	0.55 g /100 g
Ammonium NH4	0.20 g /100 g
Arginine ARG	0.59 g /100 g
Aspartic acid ASP	0.81 g /100 g
Cystine CYS2	0.21 g /100 g
Glutamic acid GLU	1.32 g /100 g
Glycine GLY	0.49 g /100 g
Histidine HIS	0.23 g /100 g
Isoleucine ILE	0.42 g /100 g
Leucine LEU	0.76 g /100 g
Lysine LYS	0.53 g /100 g
Methionine MET	0.20 g /100 g
Phenylalanine PHE	0.49 g /100 g
Proline PRO	0.62 g /100 g
Serine SER	0.40 g /100 g
Threonine THR	0.38 g /100 g
Tryptophan TRY	0.13 g /100 g
Tyrosine TYR	0.30 g /100 g
Valine VAL	0.60 g /100 g

### Vitamins:

Vitamin B12 (cyanocobalamin)	0.20µg /100g
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### Elements:

Calcium Ca	251 mg /100g
Iron Fe	12.1 mg /100g
Magnesium Mg	96.3 mg /100g
Manganese Mn	3'624 µg /100g
Phosphorus P	323 mg /100g
Zinc Zn	7.6 mg /100g

### Heavy metals:

Arsenic As	<0.2 mg /100g
Lead Pb	<0.2 mg /100g
Cadmium Cd	<0.2 mg /100g
Mercury Hg	<0.2 mg /100g

### Mycotoxins:

Total aflatoxins (B1+B2+G1+G2)	<0.5 µg /100g
Ochratoxin A	<1.0 µg /100g