Barley Malt Peptide

Technical Data Sheet

Barley Malt Peptide is a plant-derived protein hydrolysate produced from barley malt by enzymatic hydrolysis, separation, membrane filtration, concentration and spray drying. It is supplied as a yellow powder with a characteristic malt aroma for food, beverage and nutritional formulations.

Physical and Chemical Specifications

Parameter	Specification
Color	Light yellow to deep yellow
Appearance	Fine powder, free from grittiness
Odor	Characteristic malt aroma
Foreign matter	No visible impurities, lumps or foreign matter
Moisture, %	Max. 10.0
Protein, dry basis (N × 6.25), %	Min. 60.0
Acid-soluble protein, %	Max. 30.0
Relative proportion of peptide fractions with relative molecular mass 189–10,000, %	Min. 60.0
Fat, %	Max. 15.0
pH	5.0–7.0

The peptide fraction value describes the relative molecular mass distribution.

Microbiological Specifications

Parameter	Specification
Total plate count, CFU/g	Max. 5,000
Salmonella	Not detected
Staphylococcus aureus	Not detected
Shigella	Not detected

Applications

Protein beverages, powdered beverage blends, sports nutrition formulations, plant-based foods, bakery products, soups and seasonings.

Amino Acid Profile

Reference values in g/100 g on a dry basis.

Amino acid	Value	Amino acid	Value
Alanine	3.22	Lysine	2.37
Arginine	3.62	Methionine	1.38
Aspartic acid	4.96	Phenylalanine	3.85
Cystine	1.23	Proline	7.79
Glutamic acid	17.1	Serine	3.17
Glycine	2.60	Threonine	2.48
Histidine	1.51	Tryptophan	0.93
Isoleucine	3.05	Tyrosine	3.15
Leucine	5.29	Valine	3.85

Total of 16 amino acids, excluding cystine and tryptophan: 69.3 g/100 g dry basis.

Branched-chain amino acids (valine, isoleucine and leucine): 12.19 g/100 g dry basis (calculated).

Values represent amino acids measured after hydrolysis. They are indicative and may vary between batches.

Packaging and Storage

Item	Details
Packaging	20 kg or 25 kg per bag; kraft paper bag with PE inner liner.
Storage	Store in a cool, dry, well-ventilated place at a temperature not exceeding 25°C and relative humidity not exceeding 65%. Protect from light, moisture and foreign odors.
Shelf life	18 months in unopened original packaging under the recommended storage conditions.
After opening	Reseal immediately, refrigerate at 0–4°C and use within 7 days.
Transport	Use clean, dry, odor-free vehicles. Protect from direct sunlight and rain.

Ingredient Information

Plant-derived ingredient from barley malt. Contains barley.