

Pea Protein Peptide

CAS No.	EINECS No.	UN No.	Molecular Formula / Product Type
/	/	/	Yellow pea protein preparation

Product Description

HYDROPEA® Pea Protein Peptide. Grades: S90, S85A, S85B. Pea protein peptide is produced by hydrolysis of yellow pea protein. S90 provides at least 90% dry-basis protein and sodium below 100 mg/100 g; S85A and S85B provide at least 85%. These three water-soluble grades differ in ash, pH and taste, so the selected model matters as much as protein content.

Specifications

Parameter	Specification
Appearance	Cream-colored powder
Protein, dry basis (%)	S90: ≥90.0; S85A: ≥85.0; S85B: ≥85.0
Moisture (%)	≤8.0
Ash (%)	S90: ≤1.5; S85A: ≤5.0; S85B: ≤7.0
Crude fiber (%)	S90: Not specified; S85A: ≤3.0; S85B: ≤3.0
pH	S90: 4.0–6.5; S85A: 6.0–8.0; S85B: 3.0–6.0
Total plate count (CFU/g)	<10,000
Yeast (CFU/g)	<50
Molds (CFU/g)	<50
Escherichia coli	Not detected
Salmonella	Not detected
Sodium (S90 only)	<100 mg/100 g; other peptide grades: no guaranteed sodium limit specified

Typical Properties / Use Guidance

Property / Guidance	Typical Value
Grade selection	S90: Fully water-soluble; natural taste; sodium below 100 mg/100 g. For protein beverages and nutrition powders.; S85A: Fully water-soluble; mildly scented, slightly bitter. For personal-care formulations and specialized nutrition evaluation.; S85B: Fully water-soluble; neutral taste. For plant protein beverages and nutritional blends.
Typical data status	Nutritional and amino acid values below are per 100 g powder and are not guaranteed specification limits. Not detected does not mean a numerical zero.
Nutrition: Protein (g)	S90: 94.09; S85A: 89.16; S85B: 86.31
Nutrition: Moisture (g)	S90: 3.68; S85A: 3.98; S85B: 4.72
Nutrition: Total fat (g)	Not detected
Nutrition: Energy (kcal)	S90: 385; S85A: 369; S85B: 345
Nutrition: Ash (g)	S90: 1.40; S85A: 3.8; S85B: 2.66
Nutrition: Total sugars (g)	Not detected
Nutrition: Dietary fiber (g)	S90: 0.10; S85A: 2.8; S85B: 2.1
Nutrition: Iron (mg)	S90: 0.396; S85A: 0.6; S85B: 0.6
Nutrition: Potassium (mg)	S90: 127; S85A: 170.6; S85B: 164.6
Nutrition: Calcium (mg)	S90: 257; S85A: 151.80; S85B: 156.20
Nutrition: Sodium (mg)	S90: 73.8; S85A: 1200; S85B: 1200
Amino acid (g/100 g): Isoleucine	S90: 2.47; S85A: 3.85; S85B: 3.79
Amino acid (g/100 g): Leucine	S90: 4.00; S85A: 7.02; S85B: 7.07
Amino acid (g/100 g): Lysine	S90: 6.56; S85A: 6.17; S85B: 6.12
Amino acid (g/100 g): Methionine	S90: 0.70; S85A: 0.96; S85B: 1.02
Amino acid (g/100 g): Phenylalanine	S90: 2.38; S85A: 4.56; S85B: 4.33
Amino acid (g/100 g): Threonine	S90: 2.76; S85A: 2.95; S85B: 2.74
Amino acid (g/100 g): Tryptophan	S90: 0.18; S85A: 0.62; S85B: 0.60
Amino acid (g/100 g): Valine	S90: 3.25; S85A: 4.22; S85B: 4.17
Amino acid (g/100 g): Arginine	S90: 7.76; S85A: 6.75; S85B: 6.54
Amino acid (g/100 g): Cystine	S90: 0.23; S85A: 1.93; S85B: 1.88
Amino acid (g/100 g): Glutamic acid	S90: 16.69; S85A: 14.48; S85B: 14.32
Amino acid (g/100 g): Histidine	S90: 1.38; S85A: 2.32; S85B: 2.28
Amino acid (g/100 g): Proline	S90: 8.70; S85A: 3.68; S85B: 3.47
Amino acid (g/100 g): Tyrosine	S90: 1.60; S85A: 3.51; S85B: 3.49
Amino acid (g/100 g): Alanine	S90: 6.62; S85A: 3.88; S85B: 3.72
Amino acid (g/100 g): Aspartic acid	S90: 8.65; S85A: 9.57; S85B: 9.31
Amino acid (g/100 g): Glycine	S90: 13.51; S85A: 3.50; S85B: 3.43
Amino acid (g/100 g): Serine	S90: 4.00; S85A: 4.60; S85B: 4.51

Applications

- Protein beverages — S90 and S85B are intended for plant protein beverages. Compare their sodium content, pH and flavor in your finished formulation before choosing a grade.
- Nutrition powders — S90 and S85B provide soluble pea-derived protein for nutritional blends and powdered drinks. The grade-specific nutritional profile supports recipe and label calculations.
- Personal-care formulations — S85A is identified for hair and skin-care formulations. It produces a translucent liquid with a mild smell and slightly bitter taste; request a sample for your intended use.

Packaging and Storage

Packaging	20 kg bag; PE liner specified for S85A and S85B.
Storage	Keep sealed in a cool, dry place, protected from moisture and direct sunlight. Shelf life: 2 years in unopened original packaging.

Safety and Regulatory

Food-grade protein ingredient for the stated applications. Prevent dust formation and follow the applicable SDS for handling. Confirm suitability for the intended application and destination-market requirements.

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The information is provided in good faith for professional evaluation. Specifications apply to the stated commercial grade; users must confirm suitability, regulatory compliance and safe handling for their intended application.