

Casein Phosphopeptides

TECHNICAL DATA SHEET

Casein Phosphopeptides phosphopeptide ingredient for professional ingredient formulation and manufacturing.

CAS No.	691364-49-5
Source	Bovine casein
Physical form	Powder

Product Information

Casein phosphopeptides, abbreviated CPP, are phosphorylated peptide fractions obtained by enzymatic processing of bovine casein. This phosphopeptide ingredient is supplied as powder.

The selected specification lists Peptide Content (%): CPP1: ≥ 14.0 ; CPP2: ≥ 21.0 ; High purity: ≥ 80.0 ; Debitterized: ≥ 23.0 ; Protein (%): CPP1: ≥ 90.0 ; CPP2: ≥ 90.0 ; High purity: ≥ 80.0 ; Debitterized: ≥ 80.0 . For casein phosphopeptides purchasing, identify the grade and analytical requirements used in the formulation. The product specification below provides the criteria for comparing material grades and checking the corresponding batch COA.

Product series: CPP1 · CPP2 · High Purity Casein Phosphopeptides · Debitterized CPP

Specifications

Parameter	Specification
Color	CPP1: White Or Light Yellow; CPP2: White Or Light Yellow; High purity: White Or Light Yellow; Debitterized: White Or Light Yellow
Peptide Content (%)	CPP1: ≥ 14.0 ; CPP2: ≥ 21.0 ; High purity: ≥ 80.0 ; Debitterized: ≥ 23.0
Protein (%)	CPP1: ≥ 90.0 ; CPP2: ≥ 90.0 ; High purity: ≥ 80.0 ; Debitterized: ≥ 80.0
Ash Content (%)	CPP1: ≤ 6.0 ; CPP2: ≤ 6.0 ; High purity: ≤ 10 ; Debitterized: ≤ 6.0
Moisture (%)	CPP1: ≤ 6.0 ; CPP2: ≤ 6.0 ; High purity: ≤ 6.0 ; Debitterized: ≤ 6.0
Total Nitrogen (Mg/Kg)	CPP1: ≥ 12 ; CPP2: ≥ 12 ; High purity: ≥ 10.0 ; Debitterized: ≥ 12
Lead (%)	CPP1: ≤ 2.0 ; CPP2: ≤ 2.0 ; High purity: ≤ 2.0 ; Debitterized: ≤ 2.0
Total Number Of Colonies (CFU/G)	CPP1: ≤ 3000 ; CPP2: ≤ 3000 ; High purity: ≤ 3000 ; Debitterized: ≤ 3000
Mold (CFU/G)	CPP1: ≤ 50 ; CPP2: ≤ 50 ; High purity: ≤ 50 ; Debitterized: ≤ 50
Yeast (CFU/G)	CPP1: ≤ 50 ; CPP2: ≤ 50 ; High purity: ≤ 50 ; Debitterized: ≤ 50
Coliform Group (MNP/G)	CPP1: ≤ 10 ; CPP2: ≤ 10 ; High purity: ≤ 10
Pathogenic Bacteria (CFU/G)	CPP1: Not Be Detected; CPP2: Not Be Detected; High purity: Not Be Detected; Debitterized: Not Be Detected

Typical values. The COA of each batch prevails.

Product Series

CPP1	Peptide content $\geq 14.0\%$; protein $\geq 90.0\%$. Select this specific grade when requesting the matching technical data and sample.;
CPP2	Peptide content $\geq 21.0\%$; protein $\geq 90.0\%$. Select this specific grade when requesting the matching technical data and sample.;
High Purity Casein Phosphopeptides	Peptide content $\geq 80.0\%$; protein $\geq 80.0\%$. Select this specific grade when requesting the matching technical data and sample.;
Debitterized CPP	Peptide content $\geq 23.0\%$; protein $\geq 80.0\%$. Select this specific grade when requesting the matching technical data and sample.;

Typical Properties & Commercial Information

MOQ	500 kg
Packing	5kgs/plastic drum
Lead time	Approximately 14 days
Free sample	500 g
Incoterms	FOB / CFR / CIF
Annual supply	On request

Free sample: up to 500 g. Courier cost payable or use your courier account.

Applications

Nutrition ingredient blends: Casein-derived ingredients can be incorporated into suitable nutrition blends.

Food formulation development: Suitable food and beverage development can use the selected casein-derived powder.

Technical grade selection: Compare the specific casein hydrolysate or phosphopeptide grade before arranging supply.

Packaging & Storage

Packaging	5kgs/plastic drum
Storage	Store in a cool dry place with rainproof, moisture-proof, insect-proof, rate-proof
Shelf life	In case of intact package and up to the above storage requirement, the valid period is 1 year.
Container loading	Qty in 20' FCL: 8MTS(with pallets)

Certifications & Documents

KOSHER · HACCP · FSSC 22000 · HALAL · ISO 9001 · ISO 22000

COA for each batch, TDS and SDS.

Company Contact

Supplier: Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)

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The agreed purchase specification and the COA of each batch govern supply.