Casein

Casein (milk protein) · CAS 9000-71-9 · Micellar casein, spray-dried

INDICATIVE SPECIFICATION — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Micellar casein, spray-dried	Casein (milk protein)	9000-71-9	≥90.0% (dry basis)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Kjeldahl	1 kg	1–7 days	1 kg foil pouch

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Protein (Kjeldahl N×6.38)	≥90.0% (dry basis)	Specification
Moisture	≤10.0%	Specification
Ash	≤2.0%	Specification
Fat	≤1.5%	Specification
Lactose	≤1.0%	Specification
Appearance	White to off-white powder	Specification
pH (5% suspension)	6.5–7.5	Specification
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	Specification
Microbiology	APC ≤10,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	Specification
Particle size	≥95% through 80 mesh	Sieve
Marker set	Protein ≥90% (dry basis, N×6.38)	Identity / ratio
Appearance	White to off-white, free-flowing powder	Visual
Solubility	Dispersible in water; micellar casein swells and is not a clear solution.	Matrix dependent
Standard packaging	1 kg foil pouch · 25 kg fiber drum	Food-grade liner

APPLICATIONS

- Sports powders
- Powder sticks and drink mixes
- Protein bars

AVAILABLE FORMS

- Spray-dried powder, 80 mesh
- Agglomerated on request
- Instantized on request

WHAT TO CONFIRM BEFORE ORDERING

- Name the form: micellar casein, calcium caseinate and sodium caseinate are different label ingredients.
- Ask for the protein factor and the dry-basis calculation; the as-is figure is lower when moisture is included.
- Micellar casein disperses differently from caseinate; trial the mixer and the mouthfeel.
- Milk is a major allergen; the allergen statement belongs on the specification.

> **Indicative document.** This sheet describes the grade we can quote; it is not a batch COA and does not confirm a result for a specific lot. Final specification, contaminant limits and documentation are agreed in writing before the order. The form, hydrate state, ligand ratio and method are release parameters, not marketing descriptions.

DOCUMENTATION RELEASED WITH EACH LOT

DOCUMENT	CONTENT	SCOPE
Certificate of analysis	Assay, identity, physical parameters, contaminant panel and the release decision for the lot.	Batch-specific
Technical data sheet	Form, hydrate state, CAS, specification ranges, solubility, bulk density, storage and packing.	Product-level
Safety data sheet	Sixteen sections covering hazards, handling, storage, transport and emergency response.	Grade-specific
Allergen and GMO statements	Major allergens, gluten, animal-derived inputs and GMO status.	Batch-specific
Origin and traceability record	Manufacturing site and the link between the lot and the retained sample.	Batch-specific
Residual-solvent statement	The crystallisation system and the solvent class, where applicable.	Batch-specific

HOW TO REQUEST THIS GRADE

01 · BRIEF

Send the target specification, quantity, dosage form and destination market.

02 · COUNTER-SPEC

We confirm what can be matched and the documents available for the grade.

03 · SAMPLE & QUOTE

A sample with its own COA, followed by packing, lead time and terms in writing.

No claim is made here. This sheet does not claim a therapeutic effect, a product certification or a regulatory approval. Health claims belong to the brand that makes them and to the market that authorises them.

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