Monellin 90%

Monellin sweet protein · CAS — · Monellin protein, 90% on a protein basis

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Monellin protein, 90% on a protein basis	Monellin sweet protein	—	≥90.0% (protein basis)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC protein profile and SDS-PAGE	1 kg	3–10 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

A 90% monellin sweet protein for high-intensity sweetness, with the protein identity and handling requirements stated before the trial.

SWEETNESS

2,000–3,000 × sucrose, indicative for the 90% protein

TASTE NOTE

Intense sweetness with a slow onset and a long tail; the protein can add body.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Monellin protein	≥90.0% (protein basis)	As stated
Appearance	White to off-white powder	As stated
Moisture	≤8.0%	As stated
pH (1% solution)	4.5–7.0	As stated
Solubility	Soluble in water	As stated
Particle size	≥95% through 100 mesh	As stated
Bulk density	0.25–0.55 g/mL	As stated
Ash	≤3.0%	As stated
Heavy metals	Pb ≤0.5 · As ≤0.5 · Cd ≤0.5 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Marker / profile	Monellin protein ≥90%, SDS-PAGE identity	Identity
Solubility	Soluble in water; a protein solution needs a pH and preservation strategy.	Matrix dependent

PARAMETER	SPECIFICATION	METHOD / NOTE
Starting use level	0.0003–0.003% in food, depending on the category and the blend	Application dependent
pH behaviour	Most stable at mildly acidic to neutral pH; extremes reduce activity.	Matrix dependent

APPLICATIONS

- Beverages
- Dairy alternatives
- Confectionery
- Tabletop
- Supplements

AVAILABLE FORMS

- Powder, 100 mesh
- Liquid on request
- Premix on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

Catalog document. This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

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