Papain

Papain enzyme preparation · CAS 9001-73-4 · Papain powder from Carica papaya latex

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Papain powder from Carica papaya latex	Papain enzyme preparation	9001-73-4	≥6,000 USP units/mg
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
USP activity assay	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Food-grade papain powder standardized to ≥6,000 USP units/mg, for enzyme blends where the unit definition, the assay substrate and the activity after processing have to be declared.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Papain activity	≥6,000 USP units/mg	As stated
Appearance	Off-white to light tan powder	As stated
pH (1% solution)	5.0–7.5	As stated
Loss on drying	≤8.0%	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤10,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Particle size	≥95% through 40 mesh	As stated
Marker set	Papain ≥6,000 USP units/mg	Identity
Solubility	Soluble in water; the solution is clear to slightly hazy.	Matrix dependent

APPLICATIONS

- Enzyme blends
- Powder sticks and drink mixes

AVAILABLE FORMS

- Powder, 40 mesh
- Lower-activity dilution on request
- Granulated 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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