Pectin (HM/LM)

Partially methylated polygalacturonic acid · CAS 9000-69-5 · High-methoxyl or low-methoxyl pectin powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
High-methoxyl or low-methoxyl pectin powder	Partially methylated polygalacturonic acid	9000-69-5	≥65.0% (dry basis)
METHOD	MINIMUM ORDER	LEAD TIME	STANDARD PACK
AOAC 2009.01 and galacturonic acid titration	1 kg	3–10 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

A high-methoxyl or low-methoxyl pectin for gelling, body and soluble fibre, with the degree of esterification stated.

SWEETNESS

Not sweet at use levels

TASTE NOTE

Mild, slightly tart; used for gel, body and fibre, not sweetness.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Galacturonic acid	≥65.0% (dry basis)	As stated
Degree of esterification	HM 55–75%; LM 20–45%	As stated
Dietary fibre	≥65.0% (AOAC 2009.01)	As stated
Appearance	White to light brown powder	As stated
Moisture	≤8.0%	As stated
pH (1% solution)	3.0–5.0	As stated
Solubility	Soluble in water; gelation depends on the DE and the calcium	As stated
Particle size	≥95% through 80 mesh	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	Galacturonic acid ≥65%, DE as specified	Identity
Solubility	Soluble in water; HM pectin gels with acid and sugar, LM pectin with calcium.	Matrix dependent

PARAMETER	SPECIFICATION	METHOD / NOTE
Starting use level	0.2–3% in jams, beverages and confectionery, depending on the gel system	Application dependent
pH behaviour	Gelation is pH-dependent; test at the final pH and calcium level.	Matrix dependent

APPLICATIONS

- Jams and fruit
- Beverages
- Confectionery
- Dairy
- Bakery

AVAILABLE FORMS

- Powder, 80 mesh
- Granular
- Instant powder

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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