Polydextrose

Glucose polymer with sorbitol and citric acid · CAS 68424-04-4 · Polydextrose, amorphous powder or syrup

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Polydextrose, amorphous powder or syrup	Glucose polymer with sorbitol and citric acid	68424-04-4	≥90.0% (HPLC-RI)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC-RI and AOAC enzymatic fibre method	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

A polydextrose for sugar replacement, fibre enrichment and body in bakery, confectionery and beverages, with the fibre method and the physical data stated.

SWEETNESS

Very low, essentially non-sweet; used for bulk and body

TASTE NOTE

Almost no sweetness, with a clean, slightly tart note; it adds body and humectancy rather than sweetness.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Polydextrose (dry basis)	≥90.0% (HPLC-RI)	As stated
Dietary fibre	≥90.0% (AOAC 2009.01 or equivalent)	As stated
Appearance	White to cream-coloured powder	As stated
Moisture	≤3.0%	As stated
pH (10% solution)	3.0–6.0	As stated
Solubility	Freely soluble in water; low viscosity	As stated
Particle size	≥95% through 80 mesh	As stated
Bulk density	0.40–0.70 g/mL	As stated
Glucose	≤4.0% (HPLC-RI)	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	Polydextrose ≥90%, fibre ≥90%, glucose ≤4%	Identity

PARAMETER	SPECIFICATION	METHOD / NOTE
Solubility	Freely soluble in water; low viscosity and a clean, slightly tart taste.	Matrix dependent
Starting use level	2–10% in bakery, confectionery and beverages, depending on the function	Application dependent
pH behaviour	Stable across normal food pH; the solution is mildly acidic.	Matrix dependent

APPLICATIONS

- Bakery
- Confectionery
- Beverages
- Dairy
- Supplements

AVAILABLE FORMS

- Powder, 80 mesh
- Granular
- Syrup 70%

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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