Chitosan

$(C_6H_{11}NO_4)_n$ · CAS 9012-76-4 · Deacetylated chitin, powder or flakes

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Deacetylated chitin, powder or flakes	$(C_6H_{11}NO_4)_n$	9012-76-4	≥85% (titration)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Titration and viscometry	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Chitosan specified by degree of deacetylation and viscosity, with moisture, ash and insoluble matter; the source and the food-grade route are part of the specification.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Degree of deacetylation	≥85% (titration)	As stated
Viscosity (1% in 1% acetic acid)	50–200 mPa·s	As stated
Appearance	Off-white to pale yellow powder or flakes	As stated
Moisture	≤10.0%	As stated
Ash	≤1.0%	As stated
Insoluble matter	≤1.0%	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · 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
Particle size	≥95% through 80 mesh	As stated
Marker set	Chitosan ≥85% deacetylated	Identity
Solubility	Soluble in dilute acetic acid; insoluble in water and in neutral or alkaline solutions.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder blends

AVAILABLE FORMS

- Powder, 80 mesh
- Flakes on request

PACKING

STORAGE

- 1 kg foil pouch
- 25 kg fiber drum

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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