Inulin

$(C_6H_{10}O_5)n$ · CAS 9005-80-5 · Inulin, extracted chicory root fibre

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Inulin, extracted chicory root fibre	$(C_6H_{10}O_5)n$	9005-80-5	≥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 chicory inulin for fibre enrichment, sugar replacement and body, specified by fibre content, degree of polymerisation and the sweetness that comes with the shorter chains.

SWEETNESS

10% of sucrose, indicative for standard inulin; higher for oligofructose

TASTE NOTE

Mild sweetness with a clean, slightly creamy body; at high dose it can add a faint vegetal note.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Inulin (dry basis)	≥90.0% (HPLC-RI)	As stated
Dietary fibre	≥90.0% (AOAC 997.08 or equivalent)	As stated
Degree of polymerisation	DP 2–60, average 10–12	As stated
Appearance	White to off-white powder	As stated
Moisture	≤5.0%	As stated
pH (10% solution)	4.5–7.0	As stated
Solubility	Soluble in water; viscosity depends on chain length	As stated
Particle size	≥95% through 80 mesh	As stated
Bulk density	0.40–0.70 g/mL	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	Inulin ≥90%, fibre ≥90%, DP 2–60	Identity
Solubility	Soluble in water; longer-chain inulin builds viscosity and shorter chains are more soluble and sweeter.	Matrix dependent

PARAMETER	SPECIFICATION	METHOD / NOTE
Starting use level	2–10% in beverages, dairy and bakery, depending on the fibre target and the texture	Application dependent
pH behaviour	Most stable at pH 5–7; at pH below 4 and high temperature, chain length falls.	Matrix dependent

APPLICATIONS

- Beverages
- Dairy
- Bakery
- Confectionery
- Supplements

AVAILABLE FORMS

- Powder, 80 mesh
- Granulated
- High-DP on request
- Organic 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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