Fructooligosaccharides (FOS)

$(C_6H_{10}O_5)n$, n = 2–8 · CAS 308066-66-2 · Fructooligosaccharide powder or syrup

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Fructooligosaccharide powder or syrup	$(C_6H_{10}O_5)n$, n = 2–8	308066-66-2	≥95.0% (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 short-chain fructooligosaccharide for a clean, soluble fibre and mild sweetness in beverages, dairy and supplements, with the sugar profile stated.

SWEETNESS

30–50% of sucrose, indicative

TASTE NOTE

Clean, mild sweetness with a slight fruity note; less body than inulin and easier in a clear beverage.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
FOS (dry basis)	≥95.0% (HPLC-RI)	As stated
Dietary fibre	≥95.0% (AOAC 997.08 or equivalent)	As stated
Degree of polymerisation	DP 2–8	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	Freely soluble in water	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	FOS ≥95%, DP 2–8, fibre ≥95%	Identity
Solubility	Freely soluble in water; low viscosity at use levels.	Matrix dependent

PARAMETER	SPECIFICATION	METHOD / NOTE
Starting use level	2–8% in beverages and dairy, depending on the fibre target	Application dependent
pH behaviour	Most stable at pH 5–7; acidic beverages need a shelf-life check.	Matrix dependent

APPLICATIONS

- Beverages
- Dairy
- Supplements
- Confectionery
- Bakery

AVAILABLE FORMS

- Powder, 80 mesh
- Liquid 75%
- 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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