Galactooligosaccharides (GOS)

Galacto-oligosaccharide mixture · CAS 6587-31-1 · Galactooligosaccharide syrup or powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Galactooligosaccharide syrup or powder	Galacto-oligosaccharide mixture	6587-31-1	≥70.0% (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 · 250 kg drum for syrup

DESCRIPTION

A GOS syrup or powder for soluble fibre and body in beverages, dairy and supplements, with the DP profile, lactose figure and fibre method declared.

SWEETNESS

20–30% of sucrose, indicative

TASTE NOTE

Mild, clean sweetness with a slightly milky note; useful in dairy and beverage systems.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
GOS (dry basis)	≥70.0% (HPLC-RI)	As stated
Dietary fibre	≥70.0% (AOAC 2009.01 or equivalent)	As stated
Degree of polymerisation	DP 2–8	As stated
Lactose	≤10.0% (HPLC-RI)	As stated
Appearance	Colourless to light yellow syrup or white powder	As stated
Moisture	≤5.0% (powder); 25% solids in syrup	As stated
pH (10% solution)	4.0–7.0	As stated
Solubility	Freely soluble in water	As stated
Particle size	≥95% through 80 mesh (powder)	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	GOS ≥70%, DP 2–8, lactose ≤10%	Identity

PARAMETER	SPECIFICATION	METHOD / NOTE
Solubility	Freely soluble in water; low viscosity and a clean solution at use levels.	Matrix dependent
Starting use level	2–8% in beverages and dairy, depending on the fibre target	Application dependent
pH behaviour	Most stable at pH 4–7; very low pH and high heat increase hydrolysis.	Matrix dependent

APPLICATIONS

- Beverages
- Dairy
- Supplements
- Infant nutrition
- Bakery

AVAILABLE FORMS

- Syrup 75%
- Powder 70%
- Powder 90%

PACKING

- 1 kg foil pouch
- 25 kg fiber drum
- 250 kg drum for syrup

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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