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Product Specifications

Catalogue Number	01611
Product	α-D-Lactose monohydrate 4-O- β -D-Galactopyranosyl- α -D-glucose Milk sugar
CAS Number	64044-51-5
Molecular Formula	C ₁₂ H ₂₂ O ₁₁ •H ₂ O
Molecular Weight	360.32

Appearance	White crystalline powder
Appearance of Solution	To pass test
Clarity & Color	Clear and nearly colorless
Bulk density	≥ 0.45 g/mL
Water Content (Karl Fisher)	4.5 - 5.5%
Acidity & Alkalinity	≤ 0.4 mL of 0.1 N NaOH
Mould and Yeast	≤ 50 cfu/g (total)
Optical Rotation	[α] _D ²⁰ = 54.4 - 55.9 °
UV Ratios	Absorbance (400 nm): ≤ 0.4
Loss on Drying	≤ 0.5%
E. Coli, Salmonella, S.Aureus	Negative
Microbial Count	≤ 100 cfu/g (total aerobic)
Protein Determination	≤ 0.25 (210-220 nm); ≤ 0.07 (270-300 nm)
Mesh Size	020350 - 5% thr' 80 mesh , 0 - 10% thr' 100 mesh 10 - 30% thr' 200 mesh
Residue On Ignition	≤ 0.1%
Purity	≥ 99%
Grade	NF/USP, EP, JP
Storage	Store at 0 - 8 °C

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Additional Information Enterobacteriaceae-Bile tolerant organism : Absent
Pseudomonas : Negative per 10 g
Tapped Density: ≤ 0.70 g/mL

For Laboratory Use Only