



RM565 Lactose monohydrate, Bacteriological grade

Product NumberPackingRM565: 500G

Product Information

Product Code : RM565

Product Name : Lactose monohydrate, Bacteriological grade
Synonym : 4-O-β-D-Galactopyranosyl-D-glucose; Milk sugar

 $\label{eq:molecular Formula} \qquad \qquad : \quad C_{12}H_{22}O_{11}.H_2O$

 Molecular Weight
 : 360.31

 CAS No.
 : 64044-51-5

 EC No.
 : 200-559-2

 HS Code
 : 1702 11 00

 Shelf Life
 : 4 years

Technical Specification

Appearance : White yellowish-white crystals or powder Solubility : 100 mg soluble in 1 mL of boiling water

Clarity : 1% w/v aqueous solution is clear, without any haziness

pH (2% in water at 25°C) : 4.00 - 6.00

Cultural response : Cultural response observed after an incubation at 35-37°C for 18-24 hours

by preparing Phenol Red Lactose Broth (M275), using 0.5% of Lactose

monohydrate, Bacteriological grade as an ingredient.

Organisms (ATCC)	Growth	Acid	Gas
Citrobacter freundi ATCC 8090	luxuriant	positive reaction (yellow coloured)	positive reaction
Enterobacter aerogenes ATCC 13048	luxuriant	positive reaction (yellow coloured)	positive reaction
Escherichia coli ATCC 25922	luxuriant	positive reaction (yellow coloured)	positive reaction
Klebsiella pneumoniae ATCC 13883	luxuriant	positive reaction (yellow coloured)	positive reaction
Proteus vulgaris ATCC 13315	luxuriant	negative reaction, no colour change	negative reaction
Serratia marcescens ATCC 8100	luxuriant	negative reaction, no colour change	negative reaction
Salmonella Typhi ATCC 6539	luxuriant	negative reaction, no colour change	negative reaction
Salmonella phimurium ATCC 14028	luxuriant	negative reaction, no colour change	negative reaction
Shigella flexneri ATCC 12022	luxuriant	negative reaction, no colour change	negative reaction

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Chemical Analysis:

Specific rotation [α 20/D] : +52.00 to +54.00° (c = 10% in water)

Assay (HPLC) : min. 99.50 %

Risk and Safety Information

WGK : 3

Storage Temperature(°C) : Store below 30°C

Transport Information

Marine Pollutant : No

ADR/RID : Not Dangerous Goods IMDG : Not Dangerous Goods IATA : Not Dangerous Goods

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