



Certificate of Analysis

Lactose Monohydrate

Product : LACTOSE MONOHYDRATE Extra Pure
Name

Lot No. : Sample COA

Release Date : 15-Jul-2025

Mol. : C₁₂H₂₂O₁₁.H₂O

Mol. Weight : 360.31

Formula

Code No. : 04329

CAS No. : 10039-26-6

Mfg. Date : Jul-2025

Exp. Date : Jun-2030

HAZ. / : -

UN No. : -

P.G.

Sr.	Tests	Specifications	Results
1	Appearance	White or almost white crystalline powder	Almost white crystalline powder
2	Specific optical rotation ([α] _{20/D} ; 10% in water; on dried substance)	+54.4 to +55.9°	+ 55.187°
3	Sulphated ash	Max 0.5%	0.11%
4	Water (by KF)	4.5 - 5.5%	4.94%
5	Heavy metal (as Pb)	Max 0.0005%	Not detected
6	Arsenic (As)	Max 0.0001%	< 0.0001%
7	Copper (Cu)	Max 0.0025%	Not Detected
8	Lead (Pb)	Max 0.00005%	Not detected
9	Zinc (Zn)	Max 0.0025%	Not detected
10	Loss on drying (at 80°C ; 2 hrs)	Max 0.5%	0.21%
11	Matter extractable with ethanol	Max 0.4%	< 0.4%