

CERTIFICATE OF ANALYSIS

PRODUCT NAME : LACTOSE (MONOHYDRATE) AR

CAS No : 10039-26-6
Mol. Formula : C₁₂H₂₂O₁₁.H₂O
Mol. WT : 360.31
Date of analysis : 02/01/25

Product code : 23700
Batch No. : MCAR-01042
Mfd. : Jan. 2025
Exp. : Dec. 2029

S.R	Test	Specification	Observation
1	Description	White to almost white cream or yellowish white powder or crystalline powder.	White powder.
2	Specific rotation $[\alpha]^{20}_D$ (10% in water +0.2ml dil NH₃)	+54.4 ⁰ to 55.9 ⁰	+54.6 ⁰
3	Water	4.8 - 5.4%	5.0%
4	Free acid	0.25 ml N% max	< 0.25 ml N%
5	Insoluble matter	0.005% max	0.003%
6	Alcohol-soluble impurities	0.2% max	<0.2%
7	Sulphated ash	0.05% max	0.04%
8	Nitrogen compounds (N)	0.02% max	< 0.02%
9	Arsenic (As)	0.0001% max	< 0.0001%
10	Copper (Cu)	0.00005% max	< 0.00005%
11	Iron (Fe)	0.0002% max	< 0.0002%
12	Lead (Pb)	0.00005% max	< 0.00005%

REMARK: THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

[Tested By]



**CHEMIST
(Sayli)**

[QC Incharge]



**HEAD-QUALITY ASSURANCE
(G.G.Salian)**

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