

CERTIFICATE OF ANALYSIS

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|---|----------------------------------|
| Product Name : LACTOSE MONOHYDRATE AR | Analyzed On : 18-May-2021 |
| Lot No. : A35028Z2105 | Mol. Weight : 360.31 |
| Mol. Formula : C ₁₂ H ₂₂ O ₁₁ .H ₂ O | CAS No. : 10039-26-6 |
| Code No. : 04330 | Exp. Date : Apr-2026 |
| Mfg. Date : May-2021 | UN No. : - |
| HAZ. / P.G. : - | |

| Sr. | Tests | Specifications | Results |
|-----|---|--|---------------------------------|
| 1 | Appearance | White or almost white crystalline powder | Almost white crystalline powder |
| 2 | Specific optical rotation ([α] _D ²⁰ ; 10% in water; on dried substance) | +54.4° to +55.9° | +55.16° |
| 3 | Water (H ₂ O) | 4.8 - 5.4% | 5.35% |
| 4 | Free acid | Max 0.25 ml N% | 0.13 ml N% |
| 5 | Insoluble matter | Max 0.005% | 0.005% |
| 6 | Alcohol soluble impurities | Max 0.2% | 0.2% |
| 7 | Sulphated ash | Max 0.3% | 0.015% |
| 8 | Nitrogen compounds (as N) | Max 0.02% | <0.02% |
| 9 | Arsenic (As) | Max 0.0001% | <0.0001% |
| 10 | Copper (Cu) | Max 0.00005% | 0.000038% |
| 11 | Iron (Fe) | Max 0.0002% | 0.00016% |
| 12 | Lead (Pb) | Max 0.00005% | 0.00005% |

CONCLUSION - This above product complies as per the specifications of **LOBA CHEMIE PVT. LTD.**



Shashikant Gaikewad
QC Manager

LOBA CHEMIE PVT. LTD.

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LOBA/QC/FM/01

04/10.03.2021