

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : LACTOSE (MONOHYDRATE)**

**CAS No : 10039-26-6**

**Mol. Formula :  $C_{12}H_{22}O_{11} \cdot H_2O$**

**Mol. WT : 360.31**

**Date of analysis : 20/08/24**

**Product code : 15220**

**Batch No. : MCR-30064-01**

**Mfd. : Aug. 2024**

**Exp. : July 2029**

| S.R | Test                                                                                              | Specification                                                                   | Observation             |
|-----|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------|
| 1   | <b>Description</b>                                                                                | White to almost white or cream or yellowish white powder or crystalline powder. | Yellowish white powder. |
| 2   | <b>Specific rotation <math>[\alpha]^{20}_D</math> (10% in water +0.2ml dil <math>NH_3</math>)</b> | +54.4 <sup>0</sup> to 55.9 <sup>0</sup>                                         | +55.79 <sup>0</sup>     |
| 3   | <b>Acidity/Alkalinity</b>                                                                         | Passes test                                                                     | Passes test             |
| 4   | <b>Water (KF)</b>                                                                                 | 4.5 – 5.5%                                                                      | 4.8%                    |
| 5   | <b>Sulphated ash</b>                                                                              | 0.1 % max                                                                       | 0.06%                   |
| 6   | <b>Arsenic (As)</b>                                                                               | 0.0001% max                                                                     | <0.0001%                |
| 7   | <b>Lead (Pb)</b>                                                                                  | 0.0005% max                                                                     | <0.0005%                |

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**



**CHEMIST  
(Deepa)**

**[QC Incharge]**



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

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