



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : D(-)MANNITOL (FOR BACTERIOLOGY) AR**

**CAS No : 69-65-8**  
**Mol. Formula : C<sub>6</sub>H<sub>14</sub>O<sub>6</sub>**  
**Mol. WT : 182.17**  
**Date of analysis : 09/10/23**

**Product code : 23980**  
**Batch No. : MCRT-29467**  
**Mfd. : Oct. 2023**  
**Exp. : Sept. 2028**

| S.R | Test                                                                                                | Specification                       | Observation          |
|-----|-----------------------------------------------------------------------------------------------------|-------------------------------------|----------------------|
| 1   | Description                                                                                         | White powder or crystalline powder. | White powder.        |
| 2   | Assay                                                                                               | 99.5% min.                          | 99.90%               |
| 3   | Melting point                                                                                       | 166 – 169 <sup>0</sup> C            | 167.1 <sup>0</sup> C |
| 4   | Specific rotation $[\alpha]^{20}_D$<br>(C=8, In Aqueous Solution<br>10.4% Disodium Tetra<br>borate) | +23° to +25°                        | +23.75°              |
| 5   | Insoluble matter                                                                                    | 0.01% max                           | 0.007%               |
| 6   | Acidity (CH <sub>3</sub> COOH)                                                                      | 0.005% max                          | <0.005%              |
| 7   | Sulphated ash                                                                                       | 0.02% max                           | 0.02%                |
| 8   | Chloride (Cl)                                                                                       | 0.001% max                          | <0.001%              |
| 9   | Sulphate (SO <sub>4</sub> )                                                                         | 0.005% max                          | <0.005%              |
| 10  | Arsenic (As)                                                                                        | 0.0001% max                         | <0.0001%             |
| 11  | Calcium (Ca)                                                                                        | 0.001% max                          | <0.001%              |
| 12  | Copper (Cu)                                                                                         | 0.0005% max                         | <0.0005%             |
| 13  | Iron (Fe)                                                                                           | 0.0005% max                         | <0.0005%             |
| 14  | Lead (Pb)                                                                                           | 0.0005% max                         | <0.0005%             |
| 15  | Reducing sugars (C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )                                    | 0.05% max                           | <0.05%               |

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

**[Tested By]**

**[QC Incharge]**

**CHEMIST**  
**(Deepa)**

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

**Note:** Computer generated image requires no sign.

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