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## Certificate of Analysis

|                                 |   |
|---------------------------------|---|
| <b>Product</b>                  | <b>21304 - D-Mannitol ACS, ExiPlus, Multi-Compdial, 99% - [69-65-8]</b> |
| <b>Batch No</b>                 | <b>4423895</b>  |
| <b>Analysis Date</b>            | 10-Apr-2024   |
| <b>Date of Manufacture</b>      | April 2024  |
| <b>Expiry Date/Re-Test Date</b> | April 2029  |
| <b>Molecular Formula</b>        | C6H14O6   |
| <b>Molecular Weight</b>         | 182.17  |

| Test Parameters                         | Standards  | Actual Results     |
|---|--|--------------------|
| ExiPlus                                 | meets compendial specs of BP,USP and EP                      | Passes             |
| Appearance (Colour)                     | White  | White              |
| Appearance (Form)                       | Crystalline powder   | Crystalline powder |
| Solubility (Turbidity) 10% aq. solution | Clear  | Clear              |
| Solubility (Colour) 10% aq. solution    | Colourless   | Colourless         |
| Assay (HPLC)                            | 99.0%  | 99.7%              |
| Loss on drying                          | max. 0.05% (105°C for 4Hrs)                                  | 0.04%              |
| Melting Point                           | 165 - 168°C  | 168°C              |
| Insoluble matter                        | max. 0.01%   | 0.008%             |
| Specific rotation [α]                   | +23° to 24° @20°C (C=10 in sodium borate ) (Dried Substance) | 23.398°            |
| Reducing sugars (C6H12O6)               | max. 0.1%  | Passes             |
| Conductivity                            | max. 20 μs-cm-1  | 2.7 μs-cm-1        |
| Identification (IR Spectrum)            | Passes test  | Passes             |
| Heavy Metals (Pb)                       | max. 0.0005%   | Passes             |
| Nickel (Ni)                             | max. 0.0001%   | Passes             |
| Water (KF)                              | max. 0.5%  | 0.1%               |
| Residue after ignition                  | max. 0.05%   | 0.04%              |
| Titration acid                          | max. 0.0008%   | 0.0005%            |

FRM/82/11/4/21304 Rev No. 4 Date 06/04/2024

Prepared by Vivek

In compliance with the standard specifications of SRL

Plant Site 2 : H-4, MIDC, Talaja – 410 208, Maharashtra, India

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