

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-02-26 13:53:31  
 Date of Next Testing: 2030-02-25 13:53:31  
 Product Name: **D-Mannitol**  
 CAS Number: 69-65-8  
 Specifications & Purity: Ultra pure, ≥99%(HPLC)  
 Lot #: B2624461  
 SKU #: **M108829**  
 Version: **1**  
 Analysis #: **660571**  
 Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

| Parameter                                                   | Limit Values             | Result                   |
|-------------------------------------------------------------|--------------------------|--------------------------|
| Sulfate(SO42-)                                              | 0-200 (ppm)              | 0.00000 ppm              |
| Reducing sugars                                             | 0-0.2 (%)                | 0.00000 %                |
| Calcium(Ca)                                                 | 0-100 (ppm)              | 0.00000 ppm              |
| Phosphorus (P)                                              | 0-0.01 (%)               | 0.00000 %                |
| Silicon(Si)                                                 | 0-0.02 (%)               | 0.00000 %                |
| Chloride (Cl-)                                              | 0-50 (ppm)               | 0.00000 ppm              |
| Copper(Cu)                                                  | 0-50 (ppm)               | 0.00000 ppm              |
| Sodium(Na)                                                  | 0-200 (ppm)              | 13.00000 ppm             |
| Purity(HPLC)                                                | 99-100 (%)               | 99.92100 %               |
| Zinc(Zn)                                                    | 0-10 (ppm)               | 0.00000 ppm              |
| Specific Rotation[a]25/D(c=1 in 1%acidified Molybdate&H2SO4 | 137-145 (°)              | 140.56600 °              |
| Potassium(K)                                                | 0-50 (ppm)               | 0.00000 ppm              |
| loss on drying, 105 °C                                      | 0-0.5 (%)                | 0.01970 %                |
| Iron(Fe)                                                    | 0-50 (ppm)               | 0.00000 ppm              |
| Magnesium(Mg)                                               | 0-50 (ppm)               | 0.00000 ppm              |
| Lead(Pb)                                                    | 0-50 (ppm)               | 0.00000 ppm              |
| Melting point                                               | 166-170 (°C)             | 169.95000 °C             |
| Appearance (M108829)                                        | White Powder or Crystals | White Powder or Crystals |
| Solubility in H2O                                           | Almost transparency      | almost transparency      |
| Infrared spectrum                                           | Conforms to Structure    | Conforms to Structure    |



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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager