

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-03-27 14:57:09  
 Date of Next Testing: 2028-03-26 14:57:09  
 Product Name: **D-(+)-Mannose**  
 CAS Number: 3458-28-4  
 Specifications & Purity: Moligand™, ≥99%  
 Lot #: C2626346  
 SKU #: **M103969**  
 Version: **1**  
 Analysis #: **672555**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                                                                                   | Limit Values                                  | Result                                        |
|---------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Loss on drying                                                                              | 0-0.45 (%)                                    | 0.02978 %                                     |
| Purity(HPLC)                                                                                | 99-100 (%)                                    | 99.62600 %                                    |
| Heavy metal (as Pb)                                                                         | 0-10 (ppm)                                    | 0.00000 ppm                                   |
| Specific Rotation [α] <sub>20/D</sub> (c=2 in H <sub>2</sub> O)                             | 13.7-14.7 (°)                                 | 14.07500 °                                    |
| Appearance (M103969)                                                                        | White to Off-White Solid, Powder, or Crystals | White to Off-White Solid, Powder, or Crystals |
| Solubility in H <sub>2</sub> O, Colorless to Faint Yellow, Clear, 50 mg/ml H <sub>2</sub> O | pass                                          | Pass                                          |
| <sup>13</sup> C NMR Spectrum                                                                | Conforms to Structure                         | Conforms to Structure                         |



John Su  
QA & QC Manager