

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-04 16:20:23  
 Date of Next Testing: 2027-08-25 16:20:23  
 Product Name: **D-(+)-Mannose**  
 CAS Number: 3458-28-4  
 Specifications & Purity: Moligand™, analytical standard  
 Lot #: H2526085  
 SKU #: **M103970**  
 Version: **0**  
 Analysis #: **570138**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                                                                  | Limit Values                                 | Result                                       |
|----------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------|
| Specific Rotation [α] <sub>25</sub> /D(c=4 in H <sub>2</sub> O after 24hr) | 13.5-14.9 (°)                                | 14.47700°                                    |
| Purity (HPLC)                                                              | 99.5-100 (%)                                 | 99.77800%                                    |
| Appearance (M103970)                                                       | White to Off-White Powder or Solid or Chunks | White to Off-White Powder or Solid or Chunks |
| Infrared spectrum                                                          | Conforms to Structure                        | Conforms to Structure                        |
| Proton NMR spectrum                                                        | Conforms to Structure                        | Conforms to Structure                        |



John Su  
QA & QC Manager