

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-07-01 09:23:22  
Date of Next Testing: 2028-06-30 09:23:22  
Product Name: **Methyl  $\alpha$ -D-mannopyranoside**  
CAS Number: 617-04-9  
Specifications & Purity: 99%  
Lot #: F2421527  
SKU #: **M111852**  
Version: **0**  
Analysis #: **365259**

| Parameter  | Limit Values                                      | Result  |
|--|---|---|
| Specific Rotation [a] <sub>D</sub> 20/D(c =4 in H <sub>2</sub> O)              | 77-82 (°)   | 77.27°  |
| Purity(HPLC)   | 99-100 (%)  | 99.50600 %  |
| Melting point  | 192-196 (°C)                                      | 195.49000 °C                                      |
| Water by Karl Fischer  | 0-0.5 (%)   | 0.06 %  |
| mannose (TLC, HPLC)  | 0-0.5 (%)   | 0.08 %  |
| Appearance (M111852)   | white to grey powder or crystals<br>and/or chunks | white to grey powder or crystals<br>and/or chunks |
| Solubility in H <sub>2</sub> O , Colorless to Faint Yellow<br>,Clear,100 mg/mL | pass  | Pass  |
| Infrared spectrum  | Conforms to Structure                             | Conforms to Structure                             |



John Su  
QA & QC Manager