

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-04 15:26:39  
Date of Next Testing: 2027-03-03 15:26:39  
Product Name: **Mannitol**  
CAS Number: 69-65-8  
Specifications & Purity: plant cell culture tested, ≥99.0%  
Lot #: B2327454  
SKU #: **M119324**  
Analysis: **194360**

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{25}^D(c=1 \text{ in } 1\% \text{ acidified Molybdate \& H}_2\text{SO}_4)$	137-145 (°)	138.28°
Purity(HPLC)	99-100 (%)	99.80800%
Appearance (M119324)	white powder	White powder
Plant cell culture test	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , clear colorless , 1 mg/ml in water	pass	Pass



John Su  
QA & QC Manager