

## Certificate of Analysis

Date of Testing: 2024-09-03 11:24:41  
Date of Next Testing: 2028-09-02 11:24:41  
Product Name: **Mannitol**  
CAS Number: 69-65-8  
Specifications & Purity: plant cell culture tested, ≥99.0%  
Lot #: H2429149  
SKU #: **M119324**  
Version: **1**  
Analysis #: **406636**

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{25/D}(c=1 \text{ in } 1\% \text{ acidified Molybdate \& H}_2\text{SO}_4)$	137-145 (°)	142.76°
Purity(HPLC)	99-100 (%)	99.96300%
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