

Certificate of Analysis

Date of Testing: 2023-01-16 08:48:44

Date of Next Testing: 2025-01-15 08:48:44

Product Name: **D-(+)-Mannose**

CAS Number: 3458-28-4

Specifications & Purity: 99%

Lot #: A2305356

SKU #: **M103969**

Analysis: **158839**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.87500%
Heavy metal (as Pb)	0-10 (ppm)	0.00 ppm
Loss on drying	0-0.45 (%)	0.45 %
Specific Rotation [α] ₂₀ /D(c=4 in H ₂ O)	14-15.5 (°)	14.23°
Appearance (M103969)	White to Off-White Solid, Powder, or Crystals	White to Off-White Solid, Powder, or Crystals
Solubility in H ₂ O , Colorless to Faint Yellow , Clear , 50 mg/ml H ₂ O	pass	Pass
¹³ C NMR Spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager