

Certificate of Analysis

Date of Testing: 2023-06-08 17:08:29
Date of Next Testing: 2025-06-07 17:08:29
Product Name: **D-(+)-Mannose**
CAS Number: 3458-28-4
Specifications & Purity: 99%
Lot #: F2303512
SKU #: **M103969**
Analysis: 216514
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.94100%
Heavy metal (as Pb)	0-10 (ppm)	0.60 ppm
Loss on drying	0-0.45 (%)	0.11%
Specific Rotation [α] ₂₀ /D(c=2 in H ₂ O)	13.7-14.7 (°)	14.12°
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