

Certificate of Analysis

Date of Testing: 2023-02-14 10:57:34
 Date of Next Testing: 2025-02-13 10:57:34
 Product Name: **D-(+)-Mannose**
 CAS Number: 3458-28-4
 Specifications & Purity: 99%
 Lot #: E2114297
 SKU #: **M103969**
Analysis: **187257**
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Loss on drying	0-0.45 (%)	0.24 %
Specific Rotation [α] ₂₀ /D(c=4 in H ₂ O)	14-15.5 (°)	14.60°
Purity(HPLC)	99-100 (%)	99.17600 %
Heavy metal (as Pb)	0-10 (ppm)	3.00 ppm
Appearance (M103969)	White to Off-White Solid, Powder, or Crystals	White to Off-White Solid, Powder, or Crystals
13C NMR Spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless to Faint Yellow , Clear , 50 mg/ml H ₂ O	pass	Pass



John Su
QA & QC Manager