

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2023-01-16 09:16:35
Date of Next Testing:	2025-01-15 09:16:35
Product Name:	D-(+)-Mannose
CAS Number:	3458-28-4
Specifications & Purity:	99%
Lot #:	A2305354
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