

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-10-11 15:58:08

Date of Next Testing: 2025-10-10 15:58:08

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

CAS Number: 3458-28-4

Specifications & Purity: 99%

Lot #: 12328463

SKU #: **M103969****Analysis: 273478**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Loss on drying	0-0.45 (%)	0.44 %
Heavy metal (as Pb)	0-10 (ppm)	0.00 ppm
Purity(HPLC)	99-100 (%)	99.41000 %
Specific Rotation [α] ₂₀ /D(c=2 in H ₂ O)	13.7-14.7 (°)	14.69°
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