

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2023-06-08 17:07:35
Date of Next Testing:	2025-06-07 17:07:35
Product Name:	<b>D-(+)-Mannose</b>
CAS Number:	3458-28-4
Specifications & Purity:	99%
Lot #:	F2303463
SKU #	<b>M103969</b>
<b>Analysis:</b>	<b>216514</b>
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] <sub>20</sub> /D(c=2 in H <sub>2</sub> 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 <sub>2</sub> O , Colorless to Faint Yellow , Clear , 50 mg/ml H <sub>2</sub> O	pass	Pass
<sup>13</sup> C NMR Spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager