

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2023-02-16 15:29:42
Date of Next Testing:	2027-02-15 15:29:42
Product Name:	D-(+)-Mannose
CAS Number:	3458-28-4
Specifications & Purity:	for cell culture, ≥99%
Lot #:	B2307153
SKU #	M113093
Analysis:	188634
Storage Temperature:	Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	99-100(%)	99.07200 %
Specific Rotation [α] ₂₅ /D(c=4 in H ₂ O in stand for 24 hours)	13.5-14.9 (°)	13.52°
Appearance (M113093)	White to Off-White Powder	White to Off-White Powder
Cell Culture Test	pass	Pass
Carbon NMR Spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless to Faint Yellow,Clear ,50 mg/ml	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager