

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-02-16 15:16:38
 Date of Next Testing: 2027-02-15 15:16:38
 Product Name: **D-(+)-Mannose**
 CAS Number: 3458-28-4
 Specifications & Purity: Moligand™, for cell culture, ≥99%
 Lot #: B2307146
 SKU #: **M113093**
 Version: **1**
 Analysis #: **188634**
 Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

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 (°)	13.51600 °
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