

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2024-09-03 11:47:38
Date of Next Testing:	2028-09-02 11:47:38
Product Name:	<b>Mannitol</b>
CAS Number:	69-65-8
Specifications & Purity:	Ultrapure, ≥99.0%(HPLC)
Lot #:	H2429148
SKU #	<b>M108829</b>
Version	<b>0</b>
<b>Analysis #:</b>	<b>400925</b>
Storage Temperature:	Argon charged

Parameter	Limit Values	Result
Sulfate(SO42-)	0-200 (ppm)	0.36 ppm
Reducing sugars	0-0.2 (%)	0.00 %
Calcium(Ca)	0-100 (ppm)	0.00 ppm
Phosphorus (P)	0-0.01 (%)	0.00 %
Silicon(Si)	0-0.02 (%)	0.00 %
Melting point	166-170 (°C)	168.21000 °C
Chloride (Cl-)	0-50 (ppm)	0.12 ppm
Copper(Cu)	0-50 (ppm)	0.00 ppm
Sodium(Na)	0-200 (ppm)	2.00 ppm
Purity(HPLC)	99-100 (%)	99.96300 %
Zinc(Zn)	0-10 (ppm)	0.00 ppm
Specific Rotation $[\alpha]_{25}^D$ (c=1 in 1%acidified Molybdate&H2SO4	137-145 (°)	142.76 °
Potassium(K)	0-50 (ppm)	0.00 ppm
loss on drying, 105 °C	0-0.5 (%)	0.03 %
Iron(Fe)	0-50 (ppm)	0.00 ppm
Magnesium(Mg)	0-50 (ppm)	0.00 ppm
Lead(Pb)	0-50 (ppm)	0.00 ppm
Appearance (M108829)	White Powder or Crystals	White Powder or Crystals
Solubility in H2O	Almost transparency	almost transparency
Infrared spectrum	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager