

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2024-09-23 10:58:59
Date of Next Testing:	2028-09-22 10:58:59
Product Name:	<b>Mannitol</b>
CAS Number:	69-65-8
Specifications & Purity:	Ultrapure, ≥99.0%(HPLC)
Lot #:	I2418504
SKU #	<b>M108829</b>
Version	<b>0</b>
<b>Analysis #:</b>	<b>401936</b>
Storage Temperature:	Argon charged

Parameter	Limit Values	Result
Sulfate(SO42-)	0-200 (ppm)	1.05 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)	168.12000 °C
Chloride (Cl-)	0-50 (ppm)	0.29 ppm
Copper(Cu)	0-50 (ppm)	0.00 ppm
Sodium(Na)	0-200 (ppm)	4.00 ppm
Purity(HPLC)	99-100 (%)	99.60700 %
Zinc(Zn)	0-10 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
loss on drying, 105 °C	0-0.5 (%)	0.05 %
Iron(Fe)	0-50 (ppm)	0.00 ppm
Magnesium(Mg)	0-50 (ppm)	0.00 ppm
Lead(Pb)	0-50 (ppm)	0.00 ppm
Specific Rotation[a] <sub>25</sub> /D(c=1 in 1%acidified Molybdate&H2SO4	137-145 (°)	144.98 °
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



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager