

Certificate of Analysis

Date of Testing: 2025-05-13 15:49:31

Date of Next Testing: 2029-05-12 15:49:31

Product Name: **Mannitol**

CAS Number: 69-65-8

Specifications & Purity: Ultra pure, ≥99%(HPLC)

Lot #: E2509295

SKU #: **M108829**

Version: **0**

Analysis #: **502803**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Sulfate(SO42-)	0-200 (ppm)	0.00 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)	168.80000 °C
Chloride (Cl-)	0-50 (ppm)	0.00 ppm
Copper(Cu)	0-50 (ppm)	0.00 ppm
Sodium(Na)	0-200 (ppm)	0.00 ppm
Purity(HPLC)	99-100 (%)	99.78100 %
Zinc(Zn)	0-10 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
loss on drying, 105 °C	0-0.5 (%)	0.13 %
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] _{25/D} (c=1 in 1%acidified Molybdate&H ₂ SO ₄)	137-145 (°)	137.46 °
Appearance (M108829)	White Powder or Crystals	White Powder or Crystals
Solubility in H ₂ O	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".

John Su
QA & QC Manager