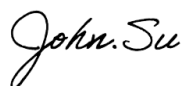


Shanghai Aladdin Biochemical Technology Co., LTD
809 Chuhua Branch Road, Fengxian District, Shanghai 201400, China

Certificate of Analysis

Date of Testing: 2022-11-17 12:18:51
Date of Next Testing: 2026-11-16 12:18:51
Product Name: **Mannitol**
CAS Number: 69-65-8
Specifications & Purity: Analytical Reagent, 98.0%
Lot #: K2215840
SKU #: **M108828**
Analysis: **156838**

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{25/D}(c=1 \text{ in } 1\% \text{ acidified Molybdate \& H}_2\text{SO}_4)$	137-145 (°)	143.10000 °
Melting point	166-170 (°C)	169.93000 °C
Purity(Iodometric Titration)	97.5-102.5 (%)	99.85000 %
Appearance (M108828)	White Powder or Crystals	White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O	Almost transparency	almost transparency



John Su
QA & QC Manager