

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-12-19 14:08:30
 Date of Next Testing: 2029-12-18 14:08:30
 Product Name: **D-(+)-Glucose monohydrate**
 CAS Number: 14431-43-7
 Specifications & Purity: $\geq 98\%$
 Lot #: L2510428
 SKU #: **G107849**
 Version: **2**
 Analysis #: **608585**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Heavy metals	0-5 (ppm)	0.00000 ppm
Purity(HPLC) (sum of enantiomers)	98-100 (%)	99.85700 %
Sulfate(SO ₄ ²⁻)	0-0.025 (%)	0.00000 %
(As)Arsenic	0-1 (ppm)	0.00000 ppm
Loss on drying	7.5-9.5 (%)	8.20380 %
Chloride (Cl ⁻)	0-0.018 (%)	0.00000 %
Ignition Residue(as sulfate 750°C,4h)	0-0.1 (%)	0.00000 %
Specific Rotation [α] _{20/D} (c=10 in H ₂ O)(dry basis)	52.6-53.2 (°)	53.18000 °
Appearance (G107849)	White Powder or Crystals	White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , clear colorless , 1 mg/ml in water	pass	Pass



John Su
QA & QC Manager