

Certificate of Analysis

Date of Testing: 2025-02-21 16:37:22

Date of Next Testing: 2029-02-20 16:37:22

Product Name: **D-(+)-Glucose monohydrate**

CAS Number: 14431-43-7

Specifications & Purity: $\geq 98\%$

Lot #: B2511263

SKU #: **G107849**

Version: **2**

Analysis #: **453180**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Heavy metals	0-5 (ppm)	0.00 ppm
Purity(HPLC) (sum of enantiomers)	98-100 (%)	99.81 %
Sulfate(SO ₄ ²⁻)	0-0.025 (%)	0.00 %
(As)Arsenic	0-1 (ppm)	0.00 ppm
Loss on drying	7.5-9.5 (%)	8.00 %
Chloride (Cl ⁻)	0-0.018 (%)	0.00 %
Ignition Residue(as sulfate 750°C,4h)	0-0.1 (%)	0.00000 %
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in H}_2\text{O})$ (dry basis)	52.6-53.2 (°)	53.13 °
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