

Certificate of Analysis

Date of Testing: 2024-11-11 15:06:08

Date of Next Testing: 2028-11-10 15:06:08

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

CAS Number: 14431-43-7

Specifications & Purity: $\geq 98\%$

Lot #: K2401570

SKU #: **G107849**

Version: **1**

Analysis #: **423436**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Heavy metals	0-5 (ppm)	0.00 ppm
Purity(HPLC) (sum of enantiomers)	98-100 (%)	99.69 %
Sulfate(SO ₄ ²⁻)	0-0.025 (%)	0.00 %
(As)Arsenic	0-1 (ppm)	0.00 ppm
Ignition Residue(Ash)	0-0.1 (%)	0.00 %
Loss on drying	7.5-9.5 (%)	8.72 %
Chloride (Cl ⁻)	0-0.018 (%)	0.00 %
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in H}_2\text{O})(\text{dry basis})$	52.6-53.2 (°)	52.95 °
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