

Certificate of Analysis

Date of Testing: 2022-10-13 17:09:39
Date of Next Testing: 2026-10-12 17:09:39
Product Name: **D-(+)-Glucose monohydrate**
CAS Number: 14431-43-7
Specifications & Purity: 98%
Lot #: J2212100
SKU #: **G107849**
Analysis: **143321**

Parameter	Limit Values	Result
Heavy metals	0-5 (ppm)	2.50 ppm
Purity(HPLC) (sum of enantiomers)	98-100 (%)	98.35 %
Specific Rotation [α] ₂₀ /D(3 hr in c=10 in H ₂ O)	46-52 (°)	52.00 °
Sulfate(SO ₄ ²⁻)	0-0.025 (%)	0.02 %
(As)Arsenic	0-1 (ppm)	0.00 ppm
Ignition Residue(Ash)	0-0.1 (%)	0.00 %
Loss on drying	7.5-9.5 (%)	9.14 %
Chloride (Cl ⁻)	0-0.018 (%)	0.01 %
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