

Certificate of Analysis

Date of Testing: 2024-08-19 16:19:45
Date of Next Testing: 2028-08-18 16:19:45
Product Name: **D-(+)-Glucose monohydrate**
CAS Number: 14431-43-7
Specifications & Purity: 98%
Lot #: H2415298
SKU #: **G107849**
Version: **1**
Analysis #: **395016**

Parameter	Limit Values	Result
Heavy metals	0-5 (ppm)	0.00 ppm
Purity(HPLC) (sum of enantiomers)	98-100 (%)	99.60%
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 (%)	8.89%
Chloride (Cl ⁻)	0-0.018 (%)	0.00%
Specific Rotation [α] ₂₀ /D(c=10 in H ₂ O)(dry basis)	52.6-53.2 (°)	52.64°
Appearance (G107849)	White Powder or Crystals	White Powder or Crystals
Solubility in H ₂ O , clear colorless , 1 mg/ml in water	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager