

## Certificate of Analysis

Date of Testing: 2022-03-01 12:52:44  
Date of Next Testing: 2026-02-28 12:52:44  
Product Name: **D-(+)-Glucose monohydrate**  
CAS Number: 14431-43-7  
Specifications & Purity: 98%  
Lot #: B2226382  
SKU #: **G107849**  
Analysis: **062267**

Parameter	Limit Values	Result
Heavy metals	0-5 (ppm)	1.21 ppm
Purity(HPLC) (sum of enantiomers)	98-100 (%)	98.45 %
Sulfate(SO42-)	0-0.025 (%)	0.02 %
Ignition Residue(Ash)	0-0.1 (%)	0.00 %
Loss on drying	7.5-9.5 (%)	8.71 %
Chloride (Cl-)	0-0.018 (%)	0.01 %
(As)Arsenic	0-1 (ppm)	0.00 ppm
Specific Rotation [a] <sub>D</sub> 20/D(3 hr in c=10 in H <sub>2</sub> O)	46-52 (°)	46.16 °
Appearance (G107849)	White Powder or Crystals	White Powder or Crystals
Solubility in H <sub>2</sub> O , clear colorless , 1 mg/ml in water	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager