

## Certificate of Analysis

Date of Testing: 2023-03-10 14:12:33  
 Date of Next Testing: 2027-03-09 14:12:33  
 Product Name: **D-(+)-Glucose monohydrate**  
 CAS Number: 14431-43-7  
 Specifications & Purity: 98%  
 Lot #: C2301837  
 SKU #: **G107849**  
**Analysis: 158695**

Parameter	Limit Values	Result
Heavy metals	0-5 (ppm)	0.00 ppm
Purity(HPLC) (sum of enantiomers)	98-100 (%)	99.80 %
Sulfate(SO42-)	0-0.025 (%)	0.01 %
(As)Arsenic	0-1 (ppm)	0.00 ppm
Ignition Residue(Ash)	0-0.1 (%)	0.00 %
Loss on drying	7.5-9.5 (%)	9.26 %
Chloride (Cl-)	0-0.018 (%)	0.01 %
Specific Rotation [α] <sub>20</sub> /D(c=10 in H <sub>2</sub> O)(dry basis)	52.6-53.2 (°)	52.64°
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