

## Certificate of Analysis

Date of Testing: 2023-11-24 11:22:10  
 Date of Next Testing: 2026-11-23 11:22:10  
 Product Name: **D-(+)-Glucose monohydrate**  
 CAS Number: 14431-43-7  
 Specifications & Purity: USP,pharmaceutical  
 Lot #: K2321439  
 SKU #: **G107850**  
 Analysis: **290671**

Parameter	Limit Values	Result
Chloride (Cl-)	0-0.018 (%)	0.01 %
Ignition Residue (as sulfate)	0-0.1 (%)	0.04 %
Loss on drying	7.5-9.5 (%)	8.52 %
Heavy metal (as Pb)	0-5 (ppm)	1.06 ppm
Acidity	0-0.3	0.13
(As)Arsenic	0-1 (ppm)	0.32 ppm
Sulfate(SO42-)	0-0.025 (%)	0.00 %
Purity(HPLC area)	98-100 (%)	99.38 %
Specific Rotation [α] <sub>25</sub> /D(c=10 in H <sub>2</sub> O)(dry basis)	52.6-53.2 (°)	52.81000°
Dextrin	Pass	Pass
Identification	pass	Pass
Residual solvents	complies	complies
Soluble Starch, Sulfites	Pass	Pass
Appearance(G107850)	White Powder or Crystals	White Powder or Crystals
NMR Spectrum 1H	conforms to structure	Conforms to Structure
Solubility in H <sub>2</sub> O,clear colorless, mg/ml in water	pass	Pass



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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager