

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-09-01 11:46:44
 Date of Next Testing: 2026-08-31 11:46:44
 Product Name: **D-(+)-Glucose monohydrate**
 CAS Number: 14431-43-7
 Specifications & Purity: 98%
 Lot #: H2229387
 SKU #: **G107849**
Analysis: 117621

| Parameter | Limit Values | Result |
|--|--------------------------|--------------------------|
| Heavy metals | 0-5 (ppm) | 2.50 ppm |
| Purity(HPLC) (sum of enantiomers) | 98-100 (%) | 99.37 % |
| Sulfate(SO42-) | 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 % |
| Specific Rotation [α] ₂₀ /D(3 hr in c=10 in H ₂ O) | 46-52 (°) | 46.88 ° |
| 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