

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-12-25 16:09:03  
 Date of Next Testing: 2029-12-24 16:09:03  
 Product Name: **D-(+)-Glucose monohydrate**  
 CAS Number: 14431-43-7  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: L2510429  
 SKU #: **G107849**  
 Version: **2**  
 Analysis #: **608585**  
 Storage Temperature: Room temperature

| Parameter                                                                    | Limit Values             | Result                   |
|------------------------------------------------------------------------------|--------------------------|--------------------------|
| Heavy metals                                                                 | 0-5 (ppm)                | 0.00000 ppm              |
| Purity(HPLC) (sum of enantiomers)                                            | 98-100 (%)               | 99.85700 %               |
| Sulfate(SO42-)                                                               | 0-0.025 (%)              | 0.00000 %                |
| (As)Arsenic                                                                  | 0-1 (ppm)                | 0.00000 ppm              |
| Loss on drying                                                               | 7.5-9.5 (%)              | 8.20380 %                |
| Chloride (Cl-)                                                               | 0-0.018 (%)              | 0.00000 %                |
| Ignition Residue(as sulfate 750°C,4h)                                        | 0-0.1 (%)                | 0.00000 %                |
| Specific Rotation $[\alpha]_{20/D(c=10 \text{ in H}_2\text{O})}$ (dry basis) | 52.6-53.2 (°)            | 53.18000 °               |
| Appearance (G107849)                                                         | White Powder or Crystals | White Powder or Crystals |
| Proton NMR spectrum                                                          | Conforms to Structure    | Conforms to Structure    |
| Solubility in H2O , clear colorless , 1 mg/ml in water                       | pass                     | Pass                     |



John Su  
QA & QC Manager