

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-08-29 13:07:49  
 Date of Next Testing: 2024-08-18 13:07:49  
 Product Name: **Sucrose**  
 CAS Number: 57-50-1  
 Specifications & Purity: for molecular biology, ≥99.5%(HPLC)  
 Lot #: H2217564  
 SKU #: **S112234**  
**Analysis:** **097657**  
 Storage Temperature: Argon charged

| Parameter  | Limit Values             | Result                   |
|--|--------------------------|--------------------------|
| Ignition Residue (as sulfate)                                    | 0-0.01 (%)               | 0.00 %                   |
| Iron(Fe)   | 0-5 (ppm)                | 0.00 ppm                 |
| Free acid  | 0-0.0008 (mg/g)          | 0.00 mg/g                |
| Insoluble matter   | 0-0.005 (%)              | 0.00 %                   |
| Invert sugar   | 0-0.1 (%)                | 0.05 %                   |
| Purity(HPLC)   | 99.5-100 (%)             | 99.86300 %               |
| Heavy metal (as Pb)  | 0-5 (ppm)                | 0.00 ppm                 |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> )                          | 0-50 (ppm)               | 25.00 ppm                |
| Melting point  | 160-187 (°C)             | 186.72000 °C             |
| Loss on drying(105°C)  | 0-0.03 (%)               | 0.00 %                   |
| Specific Rotation [α] <sub>20</sub> /D(c=10 in H <sub>2</sub> O) | 66.3-67 (°)              | 66.35°                   |
| Appearance (S112234)   | White Powder or Crystals | White Powder or Crystals |
| DNase, RNase and Protease  | None Detected            | none detected            |
| Infrared spectrum  | Conforms to Structure    | Conforms to Structure    |



John Su  
QA & QC Manager