

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-03-07 14:35:31
Date of Next Testing: 2024-02-25 14:35:31
Product Name: **Sucrose**
CAS Number: 57-50-1
Specifications & Purity: for molecular biology, $\geq 99.5\%$ (HPLC)
Lot #: B2226352
SKU #: **S112234**
Analysis: **058753**
Storage Temperature: Argon charged

| Parameter | Limit Values | Result |
|--|--------------------------|--------------------------|
| 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 (%) | 0.09 % |
| Purity(HPLC) | 99.5-100 (%) | 99.98900 % |
| Heavy metal (as Pb) | 0-5 (ppm) | 0.00 ppm |
| Sulfate(SO42-) | 0-50 (ppm) | 21.32 ppm |
| Ignition Residue (as sulfate) | 0-0.01 (%) | 0.00 % |
| Loss on drying(105°C) | 0-0.03 (%) | 0.01 % |
| Melting point | 160-187 (°C) | 168.59000 °C |
| Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in H}_2\text{O})$ | 66.3-67 (°) | 66.31° |
| 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