

Certificate of Analysis

Date of Testing: 2024-05-21 09:12:28
Date of Next Testing: 2026-05-11 09:12:28
Product Name: **Sucrose**
CAS Number: 57-50-1
Specifications & Purity: for molecular biology, $\geq 99.5\%$ (HPLC)
Lot #: E2414231
SKU #: **S112234**
Version: **1**
Analysis #: **348257**
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 (%) | 0.02 % |
| Purity(HPLC) | 99.5-100 (%) | 99.50600 % |
| Heavy metal (as Pb) | 0-5 (ppm) | 0.00 ppm |
| Sulfate(SO ₄ ²⁻) | 0-50 (ppm) | 13.38 ppm |
| Loss on drying(105°C) | 0-0.03 (%) | 0.03 % |
| Melting point | 160-187 (°C) | 186.95000 °C |
| Specific Rotation [α] ₂₀ /D(c=10 in H ₂ O) | 66.3-67 (°) | 66.32 ° |
| Appearance (S112234) | White Powder or Crystals | White Powder or Crystals |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| DNase, RNase and Protease | None Detected | none detected |



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager