

## Certificate of Analysis

Date of Testing: 2023-02-18 16:47:46  
 Date of Next Testing: 2025-02-07 16:47:46  
 Product Name: **Sucrose**  
 CAS Number: 57-50-1  
 Specifications & Purity: for molecular biology, ≥99.5%(HPLC)  
 Lot #: B23111239  
 SKU #: **S112234**  
**Analysis:** **169994**  
 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 (%)	0.03 %
Purity(HPLC)	99.5-100 (%)	99.89900 %
Heavy metal (as Pb)	0-5 (ppm)	0.00 ppm
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-50 (ppm)	8.62 ppm
Melting point	160-187 (°C)	186.95000 °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 (°)	66.32°
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