

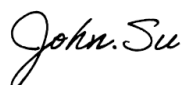
ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-06-11 15:40:14
 Date of Next Testing: 2026-06-10 15:40:14
 Product Name: **D-(+)-Glucose , anhydrous**
 CAS Number: 50-99-7
 Specifications & Purity: biotechnology Grade
 Lot #: F2209129
 SKU #: **D274366**
Analysis: 081805
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	99.5-100 (%)	99.67000%
Chloride Content	0-0.01 (%)	0.01%
Insoluble matter	0-0.005 (%)	0.00%
Iron(Fe)	0-0.0005 (%)	0.00%
Loss on drying	0-0.2 (%)	0.01%
Ignition Residue	0-0.02 (%)	0.01%
Sulfate(SO42-)	0-0.005 (%)	0.00%
Specific Rotation [α] ₂₀ /D(c=10 in H ₂ O:NH ₃ (2+3) = 99.2:0.8)	52.5-54.0 (°)	52.55°
Heavy metals(as Pb)	0-0.0005 (%)	0.00%
(As)Arsenic	0-0.00004 (%)	0.00%
DNases	none detected	none detected
RNases	none detected	none detected
Infrared spectrum	Conforms to Structure	Conforms to Structure
proteases	none detected	none detected



John Su
QA & QC Manager