

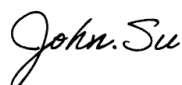
ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-10 11:18:14  
 Date of Next Testing: 2027-07-09 11:18:14  
 Product Name: **D-(+)-Glucose , anhydrous**  
 CAS Number: 50-99-7  
 Specifications & Purity: biotechnology Grade  
 Lot #: G2305147  
 SKU #: **D274366**  
**Analysis:** **151530**  
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	99.5-100 (%)	99.72600%
(As)Arsenic	0-0.00004 (%)	0.00%
Chloride Content	0-0.01 (%)	0.00%
Heavy metals(as Pb)	0-0.0005 (%)	0.00%
Insoluble matter	0-0.005 (%)	0.00%
Iron(Fe)	0-0.0005 (%)	0.00%
Loss on drying	0-0.2 (%)	0.18%
Ignition Residue	0-0.02 (%)	0.00%
Sulfate(SO42-)	0-0.005 (%)	0.00%
Specific Rotation [a] <sub>20</sub> /D(c=10 in H <sub>2</sub> O:NH <sub>3</sub> (2+3) = 99.2:0.8)	52.5-54.0 (°)	52.51°
DNases	none detected	none detected
RNases	none detected	none detected
proteases	none detected	none detected
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager