

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

|                          |                                  |
|--------------------------|----------------------------------|
| Date of Testing:         | 2024-05-22 10:18:56              |
| Date of Next Testing:    | 2028-05-21 10:18:56              |
| Product Name:            | <b>D-(+)-Glucose , anhydrous</b> |
| CAS Number:              | 50-99-7                          |
| Specifications & Purity: | biotechnology Grade              |
| Lot #:                   | E2417185                         |
| SKU #                    | <b>D274366</b>                   |
| Version                  | <b>2</b>                         |
| <b>Analysis #:</b>       | <b>356261</b>                    |
| Storage Temperature:     | Room temperature,Argon charged   |

| Parameter   | Limit Values          | Result                |
|---|-----------------------|-----------------------|
| Purity(HPLC)  | 99.5-100 (%)          | 99.54300 %            |
| (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 (%)             | 0.10 %                |
| Ignition Residue  | 0-0.02 (%)            | 0.00 %                |
| Sulfate(SO42-)  | 0-0.005 (%)           | 0.00 %                |
| Specific Rotation [α] <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 (°)         | 52.50°                |
| DNases  | none detected         | none detected         |
| RNases  | none detected         | none detected         |
| proteases   | none detected         | none detected         |
| Infrared spectrum   | Conforms to Structure | Conforms to Structure |



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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