

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2021-07-01 17:21:03  
 Date of Next Testing: 2025-06-30 17:21:03  
 Product Name: **D-(-)-Ribose**  
 CAS Number: 50-69-1  
 Specifications & Purity:  $\geq 99\%$ (HPLC)  
 Lot #: F2125313  
 SKU #: **R104821**  
 Version: **1**  
 Analysis #: **012650**  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                                                     | Limit Values                          | Result                                |
|-------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|
| Sulfate Ash                                                                   | 0-0.1 (%)                             | 0.06 %                                |
| Heavy metal (as Pb)                                                           | 0-5 (ppm)                             | 2.50 ppm                              |
| Loss on drying                                                                | 0-0.5 (%)                             | 0.27 %                                |
| Specific Rotation $[\alpha]_{20/D}(c=4 \text{ in H}_2\text{O})$               | -20.8--19.2 (°)                       | -19.22 °                              |
| Purity(HPLC)                                                                  | 99-100 (%)                            | 99.35600 %                            |
| Appearance (R104821)                                                          | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Infrared spectrum                                                             | Conforms to Structure                 | Conforms to Structure                 |
| Solubility in H <sub>2</sub> O , Colorless to Faint Yellow , Clear, 100 mg/mL | pass                                  | Pass                                  |



John Su  
QA & QC Manager