

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| Date of Testing:         | 2026-03-24 15:25:18                                 |
| Date of Next Testing:    | 2029-03-23 15:25:18                                 |
| Product Name:            | <b>D-Mannose-1-<sup>13</sup>C</b>                   |
| CAS Number:              | 70849-31-9                                          |
| Specifications & Purity: | ≥99 atom% <sup>13</sup> C, ≥99%                     |
| Lot #:                   | F23161206                                           |
| SKU #                    | <b>D473955</b>                                      |
| Version                  | <b>1</b>                                            |
| Analysis #:              | <b>675626</b>                                       |
| Storage Temperature:     | Store at 2-8°C, Protected from light, Argon charged |

| Parameter                    | Limit Values          | Result                |
|------------------------------|-----------------------|-----------------------|
| Purity(HPLC area)            | 99-100 (%)            | 99.89000 %            |
| <sup>13</sup> C Enrichment   | 99-100 (atom%)        | 99.00000 atom%        |
| Appearance(D473955)          | White Solid           | White Solid           |
| Proton NMR spectrum          | Conforms to Structure | Conforms to Structure |
| <sup>13</sup> C NMR Spectrum | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager