

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-02 13:55:49  
Date of Next Testing: 2027-12-02 13:55:49  
Product Name: **Sodium L-lactate-(<sup>13</sup>C)3**  
CAS Number: 201595-71-3  
Specifications & Purity: ≥98 atom% <sup>13</sup>C, ≥98%, 45-55 % (w/w) in H<sub>2</sub>O  
Lot #: K2428659  
SKU #: **S334655**  
Version: **1**  
Analysis #: **439209**  
Storage Temperature: Protected from light, Store at -20°C

| Parameter                         | Limit Values                              | Result                                    |
|-----------------------------------|-------------------------------------------|-------------------------------------------|
| Purity(HPLC area)                 | 98-100 (%)                                | 99.90 %                                   |
| Isotopic purity( <sup>13</sup> C) | 98-100 (%)                                | 99.50000 %                                |
| Concentration                     | 45 - 55 (%)                               | 49.00 %                                   |
| Appearance(S334655)               | Colorless to Yellow Clear Liquid Solution | Colorless to Yellow Clear Liquid Solution |
| NMR Spectrum 1H                   | Conforms to Structure                     | Conforms to Structure                     |



John Su  
QA & QC Manager