

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-02 11:38:09  
Date of Next Testing: 2026-03-01 11:38:09  
Product Name: **Sodium L-lactate-(<sup>13</sup>C)3, 45%-55% aqueous solution**  
CAS Number: 201595-71-3  
Specifications & Purity: 45-55 % (w/w) in H<sub>2</sub>O, ≥98 atom % <sup>13</sup>C, ≥98% (CP)  
Lot #: B23241179  
SKU #: **S334655**  
**Analysis: 138502**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	99.00 %
Isotopic purity( <sup>13</sup> C)	98-100 (%)	99.34000 %
Concentration	45 - 55 (%)	46.00 %
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