

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-28 11:26:08  
Date of Next Testing: 2027-07-27 11:26:08  
Product Name: **D-Lactic Acid**  
CAS Number: 10326-41-7  
Specifications & Purity: >90.0%(T)  
Lot #: G2326283  
SKU #: **S161106**  
Version: **0**  
Analysis #: **247474**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Purity(Neutralization titration)	90-110 (%)	90.40%
Refractive index n <sub>20</sub> /D	1.428-1.432	1.43
Specific Rotation [α] <sub>20</sub> /D(c=2.5 in 1.5mol/L NaOH sol.)	10-15 (°)	14.20°
Appearance (S161106)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager