

## Certificate of Analysis

Date of Testing: 2024-08-21 16:05:35  
Date of Next Testing: 2028-08-20 16:05:35  
Product Name: **L-Lactic Acid**  
CAS Number: 79-33-4  
Specifications & Purity:  $\geq 98\%$ (T)  
Lot #: H2412420  
SKU #: **L118493**  
Version: **1**  
Analysis #: **402929**  
Storage Temperature: Protected from light, Store at  $-20^{\circ}\text{C}$ , Argon charged

Parameter	Limit Values	Result
Purity (Titration by NaOH)	98-100 (%)	98.00%
Water by Karl Fischer	0-2 (%)	1.30%
Specific Rotation $[\alpha]_{20/D}(c=2.5, 1.5\text{M}, \text{NaOH})$	$-15 \sim -10$ ( $^{\circ}$ )	$-13.90000^{\circ}$
Appearance (L118493)	white to off-white crystalline powder	white to off-white crystalline powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O, Colorless, Clear, 100 mg/mL, H <sub>2</sub> O	pass	Pass



John Su  
QA & QC Manager