

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-12-25 10:21:31
 Date of Next Testing: 2029-12-24 10:21:31
 Product Name: **L-Lactic Acid**
 CAS Number: 79-33-4
 Specifications & Purity: Moligand™, high-purity, ≥90%
 Lot #: L2522587
 SKU #: **L107596**
 Version: **2**
 Analysis #: **623396**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Chloride	0-0.001 (%)	0.00050 %
Lead(Pb)	0-0.5 (ppm)	0.02500 ppm
Sulfate(SO42-)	0-0.001 (%)	0.00070 %
Color test (APHA)	0-10 (APHA)	5.20000 APHA
Ignition Residue	0-0.01 (%)	0.00500 %
Mercury	0-1 (ppm)	0.27000 ppm
(As)Arsenic	0-0.0001 (%)	0.00006 %
Methanol(CH3OH)	0-0.05 (%)	0.00070 %
Iron(Fe)	0-0.0001 (%)	0.00003 %
Density (20°C)	1.2-1.22 (g/ml)	1.21400 g/ml
Cyanide	0-1 (ppm)	0.06000 ppm
Heavy metals	0-5 (ppm)	3.95000 ppm
Calcium(Ca)	0-1 (ppm)	0.07000 ppm
Specific Rotation [α] ₂₀ /D(c=2.5 in 1.5mol/L NaOH sol.)	-15--10 (°)	-13.10000 °
Purity (T)	89.5-90.5 (%)	90.50000 %
Citric acid, oxalic acid, tartaric acid, and phosphoric acid	is not muddy	is not muddy
Easy carbon compounds	does not change to dark gray	does not change to dark gray
Reducing sugars	No red precipitate	No red precipitate
The ether insolubles	by EP	by EP
Volatile fatty acids	passes test	Passes test
Appearance (L107596)	Colorless to light yellow liquid	Colorless to light yellow liquid
Identification (Acidic aqueous solution)	lactate positive reaction	lactate positive reaction
Infrared spectrum	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager