

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-31 11:45:36  
Date of Next Testing: 2028-12-30 11:45:36  
Product Name: **DL-Lactic acid**  
CAS Number: 50-21-5  
Specifications & Purity: ACS, ≥85%  
Lot #: L2426442  
SKU #: **L108841**  
Version: **3**  
Analysis #: **450224**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Ignition Residue(Ash)	0-0.05 (%)	0.01200 %
Sulfate(SO42-)	≤50 (µg/g)	1.63500 µg/g
Heavy metal(as Pb)	≤10 (µg/g)	1.00200 µg/g
Iron(Fe)	≤10 (µg/g)	0.50000 µg/g
Assay(lactate)	90-100 (%)	90.70000 %
Color Test	0-50 (APHA)	10.00000 APHA
oxide	≤20 (µg/g)	0.53600 µg/g
(As)Arsenic	0-1 (µg/g)	0.03600 µg/g
Specific Rotation [α] <sub>20</sub> /D(c=Neat)	0.0095-0.0105 (°)	0.01000 °
Appearance (L108841)	Colorless or almost colorless clear viscous liquid	Colorless or almost colorless clear viscous liquid
calcium salt	pass	Pass
reducing sugar	Pass	Pass
Carbonyl compound	Pass	Pass
Citric acid, oxalic acid, phosphoric acid or tartaric acid	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager