

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-10-10 09:38:38
Date of Next Testing: 2026-10-09 09:38:38
Product Name: **DL-Lactic acid**
CAS Number: 50-21-5
Specifications & Purity: ACS, ≥85%
Lot #: I2224469
SKU #: **L108841**
Version: **3**
Analysis #: **121596**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.423-1.431	1.42600
Iron(Fe)	0-5 (ppm)	1.90000 ppm
Chloride Content	0-0.001 (%)	0.00100 %
Ignition Residue(Ash)	0-0.02 (%)	0.02000 %
Sulfate(SO ₄ ²⁻)	0-0.002 (%)	0.00100 %
Heavy metal (as Pb)	0-5 (ppm)	0.00000 ppm
Assay(Titration by HCL)	85-90 (%)	89.89000 %
Density (20°C)	1.209-1.214	1.21100
Appearance (L108841)	colorless viscous liquid	colorless viscous liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Substances Darkened (by H ₂ SO ₄)	Pass	Pass



John Su
QA & QC Manager