



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Product Name:**Lactic Acid (Food Grade, 80% Liquid)**

Product Information

Product Number	LA-20260225
Batch Number	LA-SH2026022501
Brand	SIGALD
CAS Number	50-21-5
MDL Number	MFCD00004523
Formula	C ₃ H ₆ O ₃ (CH ₃ CH(OH)COOH)
Formula Weight	90.08 g/mol
Quality Release Date	25 FEB 2026

Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color)	Colorless to pale yellow	Colorless	-	Visual Inspection
Appearance (Form)	Clear viscous liquid, no turbidity	Clear viscous liquid	-	Visual Inspection
Assay (C ₃ H ₆ O ₃)	78.0-82.0%	80.5%	%	Acid-Base Titration
pH Value (25°C, 10% solution)	1.0-2.0	1.5	-	Digital pH Meter
Optical Rotation (25°C)	-2.0° ~ -12.0°	-6.8°	°	Polarimeter Method
Heavy Metals (Pb)	≤ 0.5 ppm	0.1 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤ 0.1 ppm	< 0.05 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Sulfate (as SO ₄)	≤ 0.005%	0.002%	%	Turbidimetric Method
Chloride (as Cl)	≤ 0.005%	0.001%	%	Nitrate Titration
Iron (Fe)	≤ 0.001%	0.0003%	%	Colorimetric Method
Residue on Ignition	≤ 0.1%	0.03%	%	600°C Ignition Gravimetry
Total Bacterial Count	≤ 100 CFU/mL	22 CFU/mL	CFU/mL	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Supplier Information	Confirmed	Confirmed	-	-
Registered Trademark	Confirmed	Confirmed	-	-

Certification This batch of product has been tested in accordance with industrial standards for food-grade Lactic Acid and meets all specified requirements. It is qualified for use as a food additive (acidity regulator, preservative, flavor enhancer).

Issue Date: 25 FEB 2026