



# NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.  
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## Certificate of Analysis

**Product Name: L-Lysine Free (50%)**

### Product Information

Product Number LLF-50-20260225  
Batch Number LLF-SH2026022501  
Brand SIGALD  
CAS Number 56-87-1  
MDL Number MFCD00002684  
Formula  $C_6H_{14}N_2O_2$  (L-Lysine); 50% aqueous solution  
Formula Weight 146.19 g/mol (Active Ingredient)  
Quality Release Date 25 FEB 2026

### Test Results

Test	Specification (Food/Industrial Standard)	Result	Unit	Test Method
Appearance (Color)	Colorless to pale yellow	Colorless	-	Visual Inspection
Appearance (Form)	Clear homogeneous liquid, no precipitation	Clear homogeneous liquid	-	Visual Inspection & Centrifugation Test
Assay (L-Lysine Free)	48.0-52.0%	50.2%	%	High Performance Liquid Chromatography (HPLC)
pH Value (25°C)	6.0-8.0	7.1	-	Digital pH Meter
Specific Rotation [ $\alpha$ ] <sub>20</sub> <sup>D</sup>	+14.0° ~ +16.0°	+15.3°	°	Polarimeter
Heavy Metals (Pb)	≤ 5 ppm	0.7 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.2 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Heavy Metals (Hg)	≤ 0.1 ppm	0.02 ppm	ppm	Cold Vapor Atomic Absorption Spectrometry
Total Bacterial Count	≤ 100 CFU/mL	18 CFU/mL	CFU/mL	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Staphylococcus aureus	Negative	Negative	-	Microbiological Detection
Yeast & Mold	≤ 50 CFU/mL	12 CFU/mL	CFU/mL	Plate Count Method
Viscosity (25°C)	10-30 mPa·s	18 mPa·s	mPa·s	Rotational Viscometer
Density (25°C)	1.05-1.15 g/cm <sup>3</sup>	1.09 g/cm <sup>3</sup>	g/cm <sup>3</sup>	Hydrometer Method
Supplier Information	Confirmed	Confirmed	-	-
Registered Trademark	Confirmed	Confirmed	-	-

### Certification

This batch of product has been tested in accordance with food and industrial standards for L-Lysine Free (50%) and meets all specified requirements. It is qualified for use as food additive, feed additive, cosmetic and industrial raw material.

Issue Date:25 FEB 2026