



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis

(L-Lysine Free (35%))

Issue Date: 26 FEB 2026

Quality Release Date: 26 FEB 2026

Product Name

L-Lysine Free (35%) 游离 L - 赖氨酸 (35%)

Product Information

Product Number LLF-20260226

Batch Number LLF-SH2026022601

Brand SIGALD

CAS Number 56-87-1 (L-Lysine pure)

MDL Number MFCD00002634

Formula $C_6H_{14}N_2O_2$ (35% in aqueous solution)

Formula Weight 146.19 g/mol (pure); Variable (aqueous mixture)

Form Colorless to pale yellow clear liquid, no sediment

Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method	
Appearance (Color)	Colorless to pale yellow	Colorless	-	Visual Inspection	
Appearance (Form)	Clear liquid, no sediment	Clear liquid	-	Visual Inspection (25°C)	
Assay (L-Lysine Free)	34.0 ~ 36.0%	35.2%	%	High Performance Liquid Chromatography (HPLC)	
pH Value (25°C)	5.0 ~ 7.0	6.1	-	Digital pH Meter	
Specific Gravity (25/25°C)	1.08 ~ 1.12	-	1.10	-	Hydrometer Method
Viscosity (25°C)	15 ~ 30 mPa·s	22	mPa·s	Brookfield Viscometer	
Heavy Metals (Pb)	≤ 5 ppm	0.5 ppm	ppm	Atomic Absorption Spectrometry (AAS)	
Heavy Metals (As)	≤ 1 ppm	0.1 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)	
Heavy Metals (Hg)	≤ 0.1 ppm	<0.05 ppm	ppm	Cold Vapor Atomic Absorption Spectrometry	
Total Bacterial Count	≤ 100 CFU/mL	15 CFU/mL	CFU/mL	Plate Count Method	
E. coli	Negative	Negative	-	Microbiological Detection	
Staphylococcus aureus	Negative	Negative	-	Microbiological Detection	
Loss on Drying	≤ 0.5%	0.2%	%	105°C Oven Drying Method	
Residue on Ignition	≤ 0.1%	0.03%	%	550°C Ignition Method	

Certification

This batch of product has been tested in accordance with industrial standards for L-Lysine Free (35%) aqueous solution and meets all specified requirements. It is qualified for use in food additives, feed additives, cosmetic raw materials and biochemical reagent fields.