



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Date of Issue: February 24, 2026

Document No.: COA-LYS-260224-01

Batch No.: LYS-P2602-042

Manufacture Date: February 18, 2026

Expiry Date: February 18, 2028

Quantity: 25.0 kg

Product Identification	Details
Chemical Name	L-Lysine (S)-2,6-Diaminocaproic acid
CAS No.	56-87-1
EC No.	200-294-2
Molecular Formula	C ₆ H ₁₄ N ₂ O ₂
Molecular Weight	146.19 g/mol
Appearance	White crystalline powder

Test Item	Specification	Test Result	Method
Assay (on dry basis)	≥ 98.5%	99.2%	HPLC
Specific Rotation [α] _D ²⁰	+14.5° to +16.0° (5% in H ₂ O)	+15.3°	Polarimetry
Appearance	White crystalline powder	Conforms	Visual
Identity	Positive	Conforms	IR Spectroscopy
pH (5% w/v solution)	9.5 – 11.0	10.2	pH Meter
Loss on Drying	≤ 0.3%	0.12%	105°C, 3h
Residue on Ignition	≤ 0.1%	0.03%	550°C
Chloride (Cl ⁻)	≤ 0.02%	< 0.01%	Turbidimetry
Sulfate (SO ₄ ²⁻)	≤ 0.02%	< 0.01%	Turbidimetry
Ammonium (NH ₄ ⁺)	≤ 0.02%	< 0.01%	Colorimetry
Heavy Metals (as Pb)	≤ 5.0 mg/kg	< 2.0 mg/kg	AAS
Arsenic (As)	≤ 1.0 mg/kg	< 0.5 mg/kg	AFS
Other Amino Acids	≤ 0.5%	0.21%	HPLC
Microbial Limits	Total Aerobic Count ≤ 10 ³ CFU/g	< 100 CFU/g	ISO 4833-1
	Yeast & Mold ≤ 10 ² CFU/g	< 10 CFU/g	ISO 21527-2
	E. coli	Absent in 1g	ISO 16649-2
	Salmonella	Absent in 25g	ISO 6579-1

Conclusion: This product conforms to the specifications of Food Grade L-Lysine.