



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

- L-Serine

Product Name: L-Serine Product Information

Product Number L-SER-20260227
Batch Number LSER-SH2026022701
Brand SIGALD
CAS Number 56-45-1
EINECS Number 200-274-3
Formula $C_3H_7NO_3$
Formula Weight 105.09 g/mol
Quality Release Date 27 FEB 2026

Test Results

Test	Specification (Food/Pharm Grade)	Result	Unit	Test Method
Appearance (Color)	White to off-white	White	-	Visual Inspection
Appearance (Form)	Crystalline powder, free-flowing	Crystalline powder	-	Visual Inspection
Odor	Odorless	Odorless	-	Sensory Evaluation
Taste	Mild sweet taste	Mild sweet	-	Sensory Evaluation
Assay (L-Serine)	≥ 99.0%	99.5%	%	HPLC
Specific Rotation (20°C, 5% in H ₂ O)	+14.5° to +16.5°	+15.8°	°	Polarimeter
pH Value (25°C, 5% Aqueous Solution)	5.5 - 6.5	6.0	-	Digital pH Meter
Loss on Drying (105°C, 3h)	≤ 0.3%	0.08%	%	Gravimetric Method
Residue on Ignition (Ash)	≤ 0.1%	0.02%	%	Gravimetric Method (550°C)
Heavy Metals (Pb)	≤ 0.5 ppm	0.05 ppm	ppm	ICP-MS
Heavy Metals (As)	≤ 0.2 ppm	0.01 ppm	ppm	ICP-MS
Chloride (Cl ⁻)	≤ 0.01%	0.003%	%	Titrimetric Method
Sulfate (SO ₄ ²⁻)	≤ 0.01%	0.002%	%	Turbidimetric Method
Iron (Fe)	≤ 5 ppm	1.2 ppm	ppm	Colorimetric Method
Total Plate Count	≤ 50 CFU/g	< 10 CFU/g	CFU/g	GB 4789.2
E. coli	Negative in 25g	Negative	-	GB 4789.3
Salmonella	Negative in 25g	Negative	-	GB 4789.4

Certification This batch of product has been tested in accordance with the standards for L-Serine and meets all specified requirements. It is qualified for use as a nutritional supplement in food, dietary supplements, and pharmaceutical formulations.

Issue Date: 27 FEB 2026