



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis

Product Name: Glycine

Product Information

Item	Details
Product Number	GL-20260225
Batch Number	GL-SH2026022501
Brand	SIGALD
CAS Number	56-40-6
MDL Number	MFCD00004260
Formula	C ₂ H ₅ NO ₂
Formula Weight	75.07 g/mol
Quality Release Date	25 FEB 2026

Test Results

Test	Specification (Industrial/Food/Pharm Grade)	Result	Unit	Test Method
Appearance (Color)	White to off-white	White	-	Visual Inspection
Appearance (Form)	Crystalline powder/crystals	Crystalline powder	-	Visual Inspection
Assay (Glycine)	≥98.5% (Food/Pharm ≥99.5%)	99.8%	%	High Performance Liquid Chromatography (HPLC)
Melting Point (Decomposition)	232-236°C	234.5°C	°C	Melting Point Apparatus
pH Value (5% aqueous, 25°C)	5.5-7.0	6.2	-	Digital pH Meter
Loss on Drying	≤0.5%	0.12%	%	105°C Constant Weight Method
Residue on Ignition	≤0.1%	0.02%	%	Ignition at 600±50°C
Heavy Metals (Pb)	≤5 ppm (Food/Pharm ≤1 ppm)	0.2 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤1 ppm (Food/Pharm ≤0.5 ppm)	0.03 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Chloride (Cl ⁻)	≤0.01%	0.003%	%	Volumetric Method
Sulfate (SO ₄ ²⁻)	≤0.01%	0.002%	%	Turbidimetric Method
Ammonium (NH ₄ ⁺)	≤0.02%	0.005%	%	Nessler's Reagent Colorimetry
Water Solubility	Freely soluble in water, slightly in ethanol	Conforms to standard	-	Visual Inspection
Total Bacterial Count	≤100 CFU/g (Food/Pharm ≤10 CFU/g)	15 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Supplier Information	Confirmed	Confirmed	-	-
Registered Trademark	Confirmed	Confirmed	-	-

Certification

This batch of Glycine has been tested in accordance with national and industrial standards for amino acid raw materials, food additives and pharmaceutical intermediates, and meets all specified requirements for industrial, food and pharmaceutical grade use. It is qualified for release and application.

Issue Date:25 FEB 2026