



# NEWAY SINOPHC TECH. LIMITED

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## Certificate of Analysis

(L-Cysteine Free-Base L - 半胱氨酸游离碱)

Issue Date: 26 FEB 2026 Quality Release Date: 26 FEB 2026

### Product Name

L-Cysteine Free-Base (L - 半胱氨酸游离碱)

### Product Information

Product Number LCF-20260226

Batch Number LCF-SH2026022601

Brand SIGALD

CAS Number 52-90-4

MDL Number MFCD00004883

Formula  $C_3H_7NO_2S$

Formula Weight 121.16 g/mol

Form White crystalline powder, slight characteristic odor

### Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color/Form)	White crystalline powder, no caking	White crystalline powder	-	Visual Inspection (25°C)
Assay (L-Cysteine Free-Base)	≥ 98.0%	98.7%	%	High Performance Liquid Chromatography (HPLC)
Specific Rotation $[\alpha]_{20}^D$	+8.0 ~ +12.0°	+10.5°	°	Polarimeter Method
pH Value (5% aqueous solution, 25°C)	5.0 ~ 7.0	6.2	-	Digital pH Meter
Loss on Drying (105°C, 2h)	≤ 0.5%	0.2%	%	Gravimetric Method
Residue on Ignition	≤ 0.1%	0.03%	%	550°C Ignition Method
Heavy Metals (Pb)	≤ 5 ppm	0.6 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.1 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Total Bacterial Count	≤ 100 CFU/g	15 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Water Solubility (25°C)	Fully soluble in water	Conforms	-	Solubility Test
Clarity of Solution (5% H <sub>2</sub> O)	Clear, no turbidity	Clear	-	Visual Inspection

### Certification

This batch of product has been tested in accordance with food/cosmetic/ pharmaceutical grade industrial standards for L-Cysteine Free-Base and meets all specified requirements. It is qualified for use in food, cosmetic, pharmaceutical and feed additive fields.