



# NEWAY SINOPHC TECH. LIMITED

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## Certificate of Analysis

**Product Name: L-Cysteine HCl (Anhydrous / Monohydrate)**

### Product Information

Item	Details
Product Number	LCH-20260226 (Anhydrous); LCH-M-20260226 (Monohydrate)
Batch Number	LCH-SH2026022601 (Anhydrous); LCHM-SH2026022601 (Monohydrate)
Brand	SIGALD
CAS Number	52-89-1 (Anhydrous); 7048-04-6 (Monohydrate)
MDL Number	MFCDD00063022 (Anhydrous); MFCDD00149034 (Monohydrate)
Formula	C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> S·HCl (Anhydrous); C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> S·HCl·H <sub>2</sub> O (Monohydrate)
Formula Weight	157.62 g/mol (Anhydrous); 175.64 g/mol (Monohydrate)
Quality Release Date	26 FEB 2026

Test	Specification (Industry/Food/Pharm Grade)	Result (Anhydrous)	Result (Monohydrate)	Unit	Test Method
Appearance (Color)	White to off-white	White	White	-	Visual Inspection
Appearance (Form)	Crystalline powder, no caking	Crystalline powder	Crystalline powder	-	Visual Inspection
Assay (L- Cysteine HCl)	≥ 98.5% (≥99.0% Pharm/Food)	99.3%	99.1%	%	Potentiometric Titration
Melting Point (decomp.)	215-225°C (Anhydrous); 170-180°C (Monohydrate)	220.5°C	176.3°C	°C	Melting Point Apparatus
pH Value (5% aq. solution, 25°C)	1.5-2.5	2.1	2.0	-	Digital pH Meter
Loss on Drying	≤ 0.5% (Anhydrous); 5.0- 7.0% (Monohydrate)	0.2%	6.2%	%	Vacuum Drying (105°C, 3h)
Residue on Ignition	≤ 0.1%	0.03%	0.04%	%	Ignition at 600±50°C
Heavy Metals (Pb)	≤ 5 ppm (≤1 ppm Pharm/Food)	0.4 ppm	0.5 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.08 ppm	0.09 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Iron (Fe)	≤ 10 ppm (≤5 ppm Pharm/Food)	1.8 ppm	2.1 ppm	ppm	Spectrophotometry
Total Bacterial Count	≤ 100 CFU/g (≤10 CFU/g Pharm/Food)	15 CFU/g	19 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	Negative	-	Microbiological Detection
Arsenic (As)	≤ 1 ppm	0.08 ppm	0.09 ppm	ppm	AFS
Supplier Information	Confirmed	Confirmed	Confirmed	-	-
Registered Trademark	Confirmed	Confirmed	Confirmed	-	-

### Test Results

#### Certification

This batch of L-Cysteine HCl (Anhydrous/Monohydrate) has been tested in accordance with national and industrial standards for amino acid products, and meets all specified requirements for food, pharmaceutical, cosmetic and feed grade use. It is qualified for release and application.

Issue Date:26 FEB 2026