



# NEWAY SINOPHC TECH. LIMITED

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## Certificate of Analysis (COA)

### - L-Carnitine

**Issue Date:** 23 February 2026 **Product Name:** L-Carnitine (Levocarnitine) **CAS Number:** 541-15-1  
**Product Number:** LCN-20260223 **Batch Number:** LCN-SH2026022301 **Brand:** SIGALD **Formula:** C<sub>7</sub> H<sub>15</sub> NO<sub>3</sub>  
**Molecular Weight:** 161.20 g/mol **Quality Release Date:** 23 February 2026

Test	Specification (Food/Pharm Grade)	Result	Unit	Test Method
Appearance	White crystalline powder	White crystalline powder	-	Visual Inspection
Odor	Odorless	Odorless	-	Sensory Evaluation
Assay (L-Carnitine, Dry Basis)	≥ 98.0%	99.5%	%	HPLC
Specific Rotation [α] <sub>20</sub> <sup>D</sup>	-29.0° ~ -32.0° (5% in H <sub>2</sub> O)	-30.7°	°	Polarimeter
pH Value (10% Aqueous Solution)	5.5 ~ 9.5	7.1	-	Digital pH Meter (25°C)
Loss on Drying	≤ 0.5%	0.12%	%	Oven Drying (105°C, 2h)
Residue on Ignition	≤ 0.1%	0.02%	%	Gravimetric (550°C, 3h)
Chloride (Cl <sup>-</sup> )	≤ 0.05%	0.01%	%	Potentiometric Titration
Heavy Metals (as Pb)	≤ 5 ppm	< 0.5 ppm	ppm	ICP-MS
Arsenic (As)	≤ 1 ppm	< 0.1 ppm	ppm	AFS
Related Substances	≤ 1.0%	0.2%	%	HPLC
Total Plate Count	≤ 100 CFU/g	10 CFU/g	CFU/g	Plate Count Agar
E. coli	Negative in 25g	Negative	-	ISO 16649-2
Salmonella	Negative in 25g	Negative	-	ISO 6579-1

### Certification

This batch of L-Carnitine conforms to the specifications of USP NF, FCC VIII, and GB 1886.219. All test results meet the quality requirements for use in nutritional supplements, sports nutrition, pharmaceuticals, and food fortification.