



# NEWAY SINOPHC TECH. LIMITED

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## Certificate of Analysis (COA)

**Product Name: L-Valine Amino Acid (Feed Grade)**

### Product Information

Item	Details
Product Number	LV-FEED-20260226
Batch Number	LV-F2026022601
Brand	SIGALD
CAS Number	72-18-4
MDL Number	MFCD00004264
Formula	C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub>
Formula Weight	117.15 g/mol
Quality Release Date	26 FEB 2026

### Test Results (Compliant with Feed Additive Standards)

Test	Specification (Feed Grade)	Result	Unit	Test Method
Appearance	White crystalline powder, odorless	White crystalline powder	-	Visual Inspection
Assay (L-Valine)	≥99.0%	99.8%	%	HPLC (Feed Additive Method)
Specific Rotation [α] <sub>D</sub> <sup>25</sup>	+26.0° ~ +30.0°	+28.2°	°	Polarimetry
Melting Point	315-317°C (decomposition)	316.1°C	°C	Melting Point Apparatus
pH Value (2% Aqueous, 25°C)	5.5-6.5	6.0	-	Digital pH Meter
Loss on Drying	≤0.3%	0.09%	%	105°C, 2 Hours
Residue on Ignition	≤0.1%	0.02%	%	600±50°C
Heavy Metals (as Pb)	≤1 ppm	0.2 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤0.5 ppm	0.03 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Chloride (Cl <sup>-</sup> )	≤0.005%	0.002%	%	Volumetric Method
Sulfate (SO <sub>4</sub> <sup>2-</sup> )	≤0.005%	0.002%	%	Turbidimetric Method
Related Substances	≤0.5%	0.12%	%	HPLC
Total Bacterial Count	≤10 CFU/g	2 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Salmonella	Negative in 25g	Negative	-	GB 13078.1

### Certification

This batch of **Feed Grade L-Valine Amino Acid** has been tested in accordance with **GB 13078.1-2017 (Feed Hygiene Standard)** and **NY/T 391-2021 (Feed Additive Standards)**. It meets all specified requirements for feed additive use and is qualified for release.

**Date:** 26 FEB 2026