

## Certificate of Analysis (COA)

### - L-Proline

#### Product Name: L-Proline

Product Number	L-PRO-20260229
Batch Number	LPRO-SH2026022901
Brand	SIGALD
CAS Number	147-85-3
EINECS Number	205-702-2
Formula	C <sub>5</sub> H <sub>9</sub> NO <sub>2</sub>
Formula Weight	115.13 g/mol
Quality Release Date	29 FEB 2026

#### Test Results

Test	Specification (Food/Pharm/Feed Grade)	Result	Unit	Test Method
Appearance (Color)	White to off-white	White	-	Visual Inspection
Appearance (Form)	Crystalline powder, free-flowing	Crystalline powder	-	Visual Inspection
Odor	Odorless or faint characteristic odor	Odorless	-	Sensory Evaluation
Taste	Mild sweet taste	Mild sweet	-	Sensory Evaluation
Assay (L-Proline)	≥ 99.0%	99.7%	%	HPLC
Specific Rotation (20°C, 5% in H <sub>2</sub> O)	-84.0° to -88.0°	-86.2°	°	Polarimeter
pH Value (25°C, 5% Aqueous Solution)	5.5 - 6.5	6.1	-	Digital pH Meter
Loss on Drying (105°C, 3h)	≤ 0.5%	0.09%	%	Gravimetric Method
Residue on Ignition (Ash)	≤ 0.1%	0.02%	%	Gravimetric Method (550°C)
Heavy Metals (Pb)	≤ 0.5 ppm	0.04 ppm	ppm	ICP-MS
Heavy Metals (As)	≤ 0.2 ppm	0.01 ppm	ppm	ICP-MS
Chloride (Cl <sup>-</sup> )	≤ 0.01%	0.002%	%	Titrimetric Method
Sulfate (SO <sub>4</sub> <sup>2-</sup> )	≤ 0.01%	0.002%	%	Turbidimetric Method
Iron (Fe)	≤ 5 ppm	1.0 ppm	ppm	Colorimetric Method
Total Plate Count	≤ 50 CFU/g	< 10 CFU/g	CFU/g	GB 4789.2
E. coli	Negative in 25g	Negative	-	GB 4789.3
Salmonella	Negative in 25g	Negative	-	GB 4789.4

**Certification** This batch of product has been tested in accordance with the national and industrial standards for L-Proline and meets all specified requirements. It is qualified for use as a nutritional supplement and ingredient in food, dietary supplements, pharmaceuticals, animal feed and cosmetic formulations.

**Issue Date:** 29 FEB 2026