

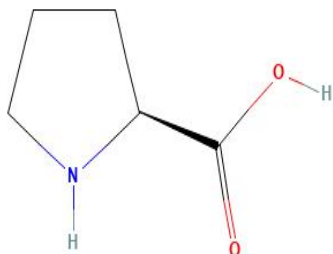


Technical Data Sheet

Tianjin Jincheng Biotechnology Co., Ltd.

Product Name: L-Proline

Chemical Structure:



Molecular Formula: C₅H₉NO₂

Molecular Weight: 115.13

CAS No.: 147-85-3

Specifications

Item	Limit	Analysis method
Appearance	White crystals or crystalline powder	Visual
Assay (on dried basis)	98.5% - 101.0%	Titration (perchloric acid)
Rotation [α] _{20D} (in HCl)	-84.5° to -86.0°	USP <781>
Loss on drying	Not more than 0.3%	USP <731>
pH	5.9 - 6.9	pH meter
Residue on ignition	Not more than 0.1%	USP <281>
Transmittance	Not less than 98.0%	Spectrophotometry
Chloride (as Cl)	Not more than 0.02%	USP <221>
Sulfate (as SO ₄)	Not more than 0.02%	USP <221>
Other amino acids	Negative	TLC
Heavy metals (as Pb)	Not more than 10 ppm	USP <231>
Iron (as Fe)	Not more than 0.001% (10 ppm)	USP <241>
Ammonium salt	Not more than 0.02%	Colorimetric method
Arsenic (as As)	Not more than 3 ppm	ICP-MS
Arsenic salt (as As ₂ O ₃)	Not more than 1 ppm	USP <211>
Total plate count	Not more than 1,000 cfu/g	USP <61>
Yeast and moulds	Not more than 100 cfu/g	USP <61>
Salmonella	Negative	USP <62>
Coliforms	Not more than 3 MPN/g	USP <62>

Recommended shelf life: 2 year

External packing: Fibre drum, 25 kg net

Inner packing: Double-layer PE bag

Storage: Preserve in tight containers, protected from light, in a cool and dry place.

Note: Analytical methods refer to current USP general chapters and the manufacturer's standard (USP 40 / AJI 97); this document is for reference only and the quality of each batch is subject to the COA supplied with the goods.

Preparation Date: Sep. 21, 2026 | Version: 1.0 | Prepared by: | Product code: JC-PRO-001