

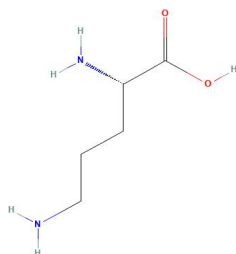


Technical Data Sheet

Tianjin Jincheng Biotechnology Co., Ltd.

Product Name: L-Ornithine Monohydrochloride

Chemical Structure:



Molecular Formula: C₅H₁₃ClN₂O₂

Molecular Weight: 168.62

CAS No.: 3184-13-2

Specifications

Item	Limit	Analysis method
Sensory characters	White crystals or crystalline powder	Visual
IR spectrum	Positive	USP <197K>
pH	5.0 - 6.0	pH meter
Optical rotation [α] _D	+23.0° to +25.0°	USP <781>
Residue on ignition	Not more than 0.1%	USP <281>
Loss on drying	Not more than 0.2%	USP <731>
Light transmittance	Not less than 98.0%	Spectrophotometry
State of solution	Clear and colorless	Visual
Sulfate	Not more than 0.02%	USP <221>
Ammonium	Not more than 0.02%	Colorimetric method
Iron	Not more than 10 ppm	USP <241>
Heavy metals (as Pb)	Not more than 10 ppm	USP <231>
Arsenic	Not more than 0.5 ppm	ICP-MS
Assay	99.0% - 101.0%	Titration (perchloric acid)
Other amino acids	Chromatographically not detectable	TLC
Total plate count	Not more than 1,000 cfu/g	USP <61>
Yeast and moulds	Not more than 100 cfu/g	USP <61>
Salmonella	Absence in 25 g	USP <62>
E. coli	Absence	USP <62>

Recommended shelf life: 2 years

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 (A1192); 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-ORN-001