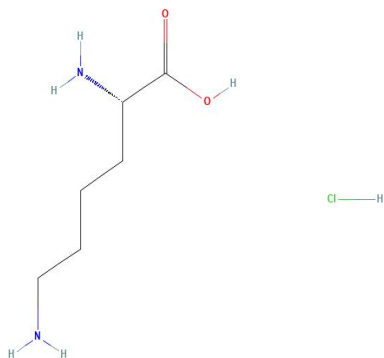




Technical Data Sheet

Tianjin Jincheng Biotechnology Co., Ltd.

Product Name: L-Lysine Hydrochloride
Chemical Structure:



Molecular Formula: C₆H₁₅ClN₂O₂
Molecular Weight: 182.65
CAS No.: 657-27-2

Specifications

Item	Limit	Analysis method
Appearance	White crystals or crystalline powder	Visual
Assay (on dried basis)	98.5% - 101.5%	Titration (perchloric acid)
Specific rotation [α] _{25D}	+20.4° to +21.4° (in 6 N HCl)	USP <781>
Chloride (as Cl)	19.0% - 19.6%	Titration (silver nitrate)
Sulfate (as SO ₄)	Not more than 0.03%	USP <221>
pH (10% solution)	5.0 - 6.0	pH meter
Iron (as Fe)	Not more than 30 ppm	USP <241>
Heavy metals (as Pb)	Not more than 15 ppm	USP <231>
Loss on drying	Not more than 0.4%	USP <731>
Residue on ignition	Not more than 0.1%	USP <281>

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 in-house standard; 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-LYS-001 | Product name: L-Lysine Hydrochloride