



Technical Data Sheet

Tianjin Jincheng Biotechnology Co., Ltd.

Product Name: L-Glutamine
Chemical Structure:



Molecular Formula: C₅H₁₀N₂O₃
Molecular Weight: 146.15
CAS No.: 56-85-9

Specifications

Item	Limit	Analysis method
Appearance	White crystalline powder	Visual
Assay (on dried basis)	98.5% - 101.5%	Titration (perchloric acid)
Specific rotation [α] _{D20}	+6.3° to +7.3°	USP <781>
Loss on drying	Not more than 0.3%	Gravimetric method
Residue on ignition	Not more than 0.1%	Gravimetric method
Heavy metals (as Pb)	Not more than 5 mg/kg	USP <231>
Transmittance	Not less than 98.0%	Spectrophotometry
Insoluble impurities	Not more than 0.05 mg/g; no fiber > 5 mm	Visual method
Whiteness	Not less than 95.0	Whiteness meter
Thru (120 mesh)	Not less than 95%	Sieve analysis
Bulk density	Not less than 0.60 g/mL	USP <616>
Total plate count	Not more than 1,000 cfu/g	USP <61>
pH	4.0 - 6.0	pH meter
Coliforms	Not more than 3.0 MPN/g	USP <62>
Mould / yeast	Not more than 100 cfu/g	USP <61>
Salmonella (25 g)	Negative	USP <62>
Arsenic (As)	Not more than 1.0 mg/kg	ICP-MS
Lead (Pb)	Not more than 3.0 mg/kg	ICP-MS
Cadmium (Cd)	Not more than 1.0 mg/kg	ICP-MS
Mercury (Hg)	Not more than 0.1 mg/kg	ICP-MS

Recommended shelf life: 3 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. 20, 2026 | Version: 1.0 | Prepared by: | Product code: JC-GLN-001