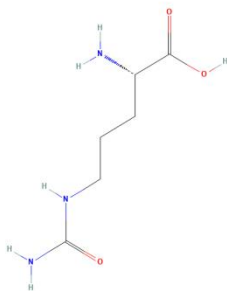




Technical Data Sheet

Tianjin Jincheng Biotechnology Co., Ltd.

Product Name: L-Citrulline
Chemical Structure:



Molecular Formula: C₆H₁₃N₃O₃
Molecular Weight: 175.19
CAS No.: 372-75-8

Specifications

Item	Limit	Analysis method
Appearance	White crystalline powder, taste sweet	Visual
Identification	Positive	Ninhydrin test
pH	5.0 - 7.0	pH meter
Optical rotation [α] _{20D}	+24.5° to +26.8°	USP <781>
Residue on ignition	Not more than 0.1%	Gravimetric method
Loss on drying	Not more than 0.3%	Gravimetric method
Light transmittance	Not less than 98.0%	Spectrophotometry
Chloride	Not more than 0.02%	USP <221>
Sulfate	Not more than 0.02%	USP <221>
Ammonium	Not more than 0.02%	Colorimetric method
Arsenic	Not more than 1 ppm	ICP-MS
Iron	Not more than 10 ppm	USP <241>
Heavy metals (as Pb)	Not more than 10 ppm	USP <231>
Assay	98.5% - 101.0%	HPLC
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 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-CIT-001