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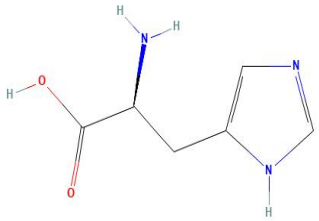
Jincheng Bio-Tech (Tianjin) Co., Ltd.

# Technical Data Sheet

**Tianjin Jincheng Biotechnology Co., Ltd.**

Product Name: L-Histidine
Chemical Structure:



Molecular Formula: C6H9N3O2
Molecular Weight: 155.15
CAS No.: 71-00-1

## Specifications

| Item | Limit | Analysis method |
|---|---|---|
| Description | White or almost white crystalline powder | Visual |
| Identification | Consistent with USP L-Histidine RS | USP <197K> |
| Assay (on dried basis) | 98.5% - 101.5% | Titration (perchloric acid) |
| Specific rotation [α]25D | +12.6° to +14.0° | USP <781S> |
| pH | 7.0 - 8.5 | pH meter |
| Light transmittance (430 nm) | Not less than 98.0% | Spectrophotometry |
| Loss on drying | Not more than 0.2% | USP <731> |
| Residue on ignition | Not more than 0.4% | USP <281> |
| Chloride | Not more than 0.05% | USP <221> |
| Sulfate | Not more than 0.03% | USP <221> |
| Iron | Not more than 30 ppm | USP <241> |
| Heavy metals (as Pb) | Not more than 15 ppm | USP <231> |
| Related compounds | Individual NMT 0.5%, Total NMT 2.0% | TLC (USP <621>) |

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 (USP 43); this document is for reference only and the quality of each batch is subject to the COA supplied with the goods.
Preparation Date: Sep. 22, 2026 | Version: 1.0 | Prepared by:
Product code: JC-HIS-001 | Product name: L-Histidine