



**Shaanxi LonierHerb Bio-Technology Co., Ltd.**

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## Certificate of Analysis

| Product Information       |                                                                                      |                  |             |
|---------------------------|--------------------------------------------------------------------------------------|------------------|-------------|
| Product Name              | L-Isoleucine                                                                         |                  |             |
| CAS                       | 73-32-5                                                                              | Report Number    | ISP20220336 |
| Batch Number              | ISP211215                                                                            | Manufacture Date | 2021/12/15  |
| Batch Quantity            | 1000Kg                                                                               | Expiry Date      | 2023/12/14  |
|                           |                                                                                      |                  |             |
| Test items                | Specifications                                                                       |                  | Result      |
| Appearance                | White Crystals or Crystalline Powder,Tastes at first slightly sweet, and then bitter |                  | Conform     |
| Assay                     | 98.5% ~ 101.5%                                                                       |                  | 100.40%     |
| Identification            | Concordant with the reference spectrum                                               |                  | Conform     |
| pH                        | 5.5~7.0                                                                              |                  | 5.8         |
| Specific rotation         | +38.9°~+41.8°                                                                        |                  | +39.2°      |
| Loss on Drying            | ≤0.30%                                                                               |                  | 0.16%       |
| Residue on ignition       | ≤0.30%                                                                               |                  | 0.11%       |
| Sulfate(SO <sub>4</sub> ) | ≤0.03%                                                                               |                  | Conform     |
| Chloride(Cl)              | ≤0.05%                                                                               |                  | Conform     |
| Iron(Fe)                  | ≤0.003%                                                                              |                  | Conform     |
| Heavy Metals              | ≤15ppm                                                                               |                  | Conform     |
| Lead (Pb)                 | ≤3ppm                                                                                |                  | Conform     |
| Arsenic (As)              | ≤1ppm                                                                                |                  | Conform     |
| Total Aerobic Count       | ≤1000cfu/g                                                                           |                  | 50cfu/g     |
| Yeast & Moulds            | ≤100cfu/g                                                                            |                  | 10cfu/g     |
| E-Coli                    | ≤50cfu/g                                                                             |                  | Conform     |
| Conclusion                |                                                                                      |                  |             |
| Conclusion                | To be complied with in-house Specification and USP36.                                |                  |             |
| Shelf Life                | 2 years when properly stored.                                                        |                  |             |
| Storage                   | Store in cool & dry place, not freeze. Keep away from strong light.                  |                  |             |

Tested by: 张丽娟

Checker: 李明

Approved:

