



Shaanxi LonierHerb Bio-Technology Co., Ltd.

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Certificate of Analysis

Product Information

| | | | |
|----------------|-----------|------------------|-------------|
| Product Name | L-Leucine | Report Number | LEU20210117 |
| Batch Number | LEU210715 | Manufacture Date | 2021/07/15 |
| Batch Quantity | 1000KG | Expiry Date | 2023/07/14 |

| Test Items | Test Standard | Test Result |
|-----------------------------|--------------------------------------|-----------------------|
| Appearance | White Crystals or Crystalline Powder | Conforms |
| Assay | 98.5%~101.5% | 99.80% |
| Identification | Meets the requirements | Conforms |
| Specific Rotation | +14.9 ~+17.3 | +15.7 |
| PH | 5.5-7.0 | 6.2 |
| Chloride | <0.05% | <0.05% |
| Sulfate(SO4) | <0.03% | <0.03% |
| Iron | <30ppm | <30ppm |
| Heavy metals(Pb) | <15ppm | <15ppm |
| Arsenic(As) | <1ppm | <1ppm |
| Loss on drying | <0.20% | 0.09% |
| Residue on ignition | <0.40% | 0.07 |
| Other amino acids | ≤0.5% | <0.5% |
| Organic volatile impurities | Meet the requirements | Meet the requirements |

Storage & Packing

Conclusion Passed test according to the Standard of USP38.

Tested by: 张丽娜 Checker: 李明 Approved:

