

**CERTIFICATE OF ANALYSIS**

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| **Product Name** | L-Leucine |
| **Batch No** | 55233389 |
| **Manufacturing Date** | 2023-08-14 |
| **Expiry Date** | 2026-08-13 |
| **CAS No** | 61-90-5 |
| **Standard** | USP33 |

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| **TEST SPECIFICATIONS** | | |
| **TESTS** | **SPECIFICATION** | **RESULTS** |
| **ASSAY** | | |
| Assay | 98.5% ~ 101.5% | 99.7% |
| **PHYSICAL CONTROL** | | |
| Appearance | White crystals or crystalline powder | Conforms |
| Identification | Positive | Conforms |
| Specific Rotation | +14.9°~ +17.3° | +15.5° |
| pH | 5.5 ~ 7.0 | 5.8 |
| Loss on drying | <0.20% | 0.14% |
| Residue on Ignition | <0.40% | 0.03% |
| **CHEMICAL CONTROL** | | |
| Heavy Metals | ≤0.0015% | <0.0015% |
| Lead (Pb) | ≤2ppm | <2ppm |
| Arsenic (As) | ≤2ppm | <2ppm |