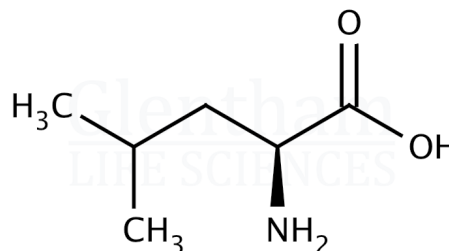


Certificate of Analysis

| | |
|---------------|---|
| Product Name | L-Leucine, GlenCell™, suitable for cell culture |
| Glentham Code | GM0001 |
| CAS Number | 61-90-5 |
| EINECS | 200-522-0 |
| Numéro MDL | MFCD00002617 |
| Batch Number | 635EVX |

| | |
|-------------------|-----------------|
| Molecular Weight | 131.18 |
| Molecular Formula | $C_6H_{13}NO_2$ |
| Storage Temp. | +20°C |



| Property | Specification | Batch 635EVX |
|--------------------------------|---|--------------------------|
| Physical Description | White crystals or crystalline powder | White crystalline powder |
| Identification | IR | Conforms |
| Solubility | Freely soluble in formic acid, sparingly soluble in water, practically insoluble in ethanol | Conforms |
| Solubility (5% in water) | Clear, colourless solution | Conforms |
| Transmittance | ≥ 98.0% (5% in water, 430nm, 10mm cell) | 100.0% |
| Specific Optical Rotation | +14.9 - +16.0 ° (C=4, 6M HCl) | +15.3 ° |
| Chloride (Cl) | ≤ 0.02% | Conforms |
| Ammonium (NH4) | ≤ 0.02% | Conforms |
| Sulphate (SO4) | ≤ 0.02% | Conforms |
| Iron (Fe) | ≤ 10ppm | Conforms |
| Heavy Metals (as Pb) | ≤ 10ppm | ≤ 5ppm |
| Arsenic (As2O3) | ≤ 1ppm | Conforms |
| Related Substances | To pass test | Conforms |
| Loss on Drying | ≤ 0.2% | 0.0% |
| Sulphated Ash | ≤ 0.1% | Conforms |
| pH | 5.5 - 6.5 (1% in water) | 5.9 |
| Endotoxins | ≤ 6.0EU/g | ≤ 3.0EU/g |
| Assay | 98.5 - 101.0 % | 100.0% |
| Origin | Non-animal origin | Conforms |
| Pharmacopoeia Specification(s) | Ph. Eur., USP | Conforms |

| | |
|-----------------------|------------|
| Specification Version | v1.0 |
| Manufacture Date | 2021-02-04 |
| Re-Test Date | 2030-08-01 |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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