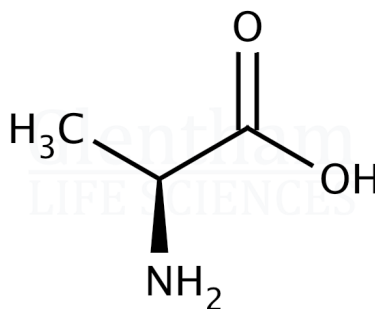


Product Specification

| | |
|-------------------|---|
| Product Name | L-Alanine, GlenCell™, suitable for cell culture |
| Glentham Code | GM0361 |
| CAS Number | 56-41-7 |
| EINECS | 200-273-8 |
| Numéro MDL | MFCD00064410 |
| Molecular Weight | 89.09 |
| Molecular Formula | C ₃ H ₇ NO ₂ |
| Storage Temp. | +20°C |



| Property | Specification |
|---|--------------------------------------|
| Physical Description | White crystals or crystalline powder |
| Identification | IR |
| Solubility (10% in water) | Clear, colourless solution |
| Transmittance | ≥ 98.0% |
| Specific Optical Rotation | +14.3 - +15.2 ° |
| Chloride (Cl) | ≤ 0.02% |
| Ammonium (NH ₄) | ≤ 0.02% |
| Sulphate (SO ₄) | ≤ 0.02% |
| Iron (Fe) | ≤ 10ppm |
| Heavy Metals (as Pb) | ≤ 10ppm |
| Arsenic (As ₂ O ₃) | ≤ 1ppm |
| Any Unspecified Impurity | ≤ 0.1% |
| Total Impurities | ≤ 0.5% |
| Residue on Ignition | ≤ 0.1% |
| Loss on Drying | ≤ 0.2% |
| pH (10% in water) | 5.7 - 6.7 |
| Endotoxins | ≤ 6.0EU/g |
| Assay | 99.0 - 101.0 % (dried basis) |
| Origin | Non-animal origin |

| | |
|-----------------------|--------------|
| Specification Version | - v1.0 |
| Date Created | - 2016-08-18 |

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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