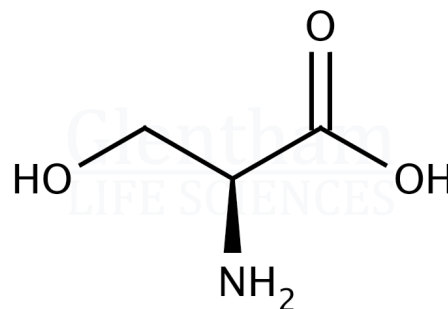


Product Specification

| | |
|-------------------|--|
| Product Name | L-Serine, GlenCell™, suitable for cell culture |
| Glentham Code | GM7000 |
| CAS Number | 56-45-1 |
| EINECS | 200-274-3 |
| MDL Number | MFCD00064224 |
| Molecular Weight | 105.09 |
| Molecular Formula | C ₃ H ₇ NO ₃ |
| Storage Temp. | +20°C |



| Property | Specification |
|---|--|
| Physical Description | White crystals or crystalline powder |
| Identification | IR |
| Solubility | Freely soluble in water and in formic acid, practically insoluble in ethanol |
| Solubility (5% in water) | Clear, colourless solution |
| Transmittance | ≥ 98.0% (5% in water, 430nm, 10mm cell) |
| Specific Optical Rotation | +14.4 - +15.5 ° (c=10, 2M HCl) |
| 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 |
| Related Substances | To pass test |
| Loss on Drying | ≤ 0.2% |
| Sulphated Ash | ≤ 0.1% |
| pH | 5.2 - 6.2 (10% in water) |
| Residual Solvents | ≤ 200ppm (Methanol) |
| Endotoxins | ≤ 6.0EU/g |
| Assay | 98.5 - 101.0 % |
| Origin | Non-animal origin |

| | | |
|-----------------------|---|------------|
| Specification Version | - | v1.0 |
| Date Created | - | 2016-04-22 |

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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