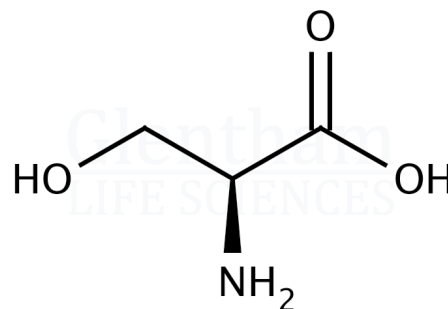


Product Specification

| | |
|-------------------|---|
| Product Name | L-Serine |
| Glentham Code | GM1114 |
| CAS Number | 56-45-1 |
| EINECS | 200-274-3 |
| MDL Number | MFCD00064224 |
| PubChem SID | 310279962 |
| 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) | To conform to standard |
| Solubility (5% in water) | Clear, colourless solution |
| Specific Optical Rotation ($[\alpha]_{20/D}$) | +14.0 - +15.6 ° |
| Chloride | ≤ 0.05% |
| Sulphate | ≤ 0.03% |
| Iron (Fe) | ≤ 30ppm |
| Heavy Metals (as Pb) | ≤ 15ppm |
| Any Individual Impurity | ≤ 0.5% |
| Total Impurities | ≤ 2.0% |
| Residue on Ignition | ≤ 0.1% |
| Loss on Drying | ≤ 0.2% |
| Assay | 98.5 - 101.5 % (dried basis) |
| Pharmacopoeia Specification(s) | USP |

| | | |
|-----------------------|---|------------|
| Specification Version | - | v1.1 |
| Date Created | - | 2022-02-04 |

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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