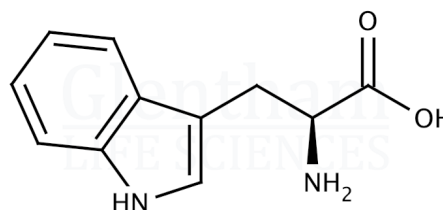


## Product Specification

|                   |   |
|-------------------|---|
| Product Name      | L-Tryptophan, GlenCell™, suitable for cell culture            |
| Glentham Code     | GM0192  |
| CAS Number        | 73-22-3   |
| EINECS            | 200-795-6   |
| MDL Number        | MFCD00064340  |
| Molecular Weight  | 204.23  |
| Molecular Formula | C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> |
| Storage Temp.     | +20°C   |



| Property                                  | Specification   |
|---|---|
| Physical Description                      | White to light yellow crystals or crystalline powder    |
| Identification (IR)                       | To conform to standard                                  |
| Solubility                                | Sparingly soluble in water, slightly soluble in ethanol |
| Solubility (1% in 1M HCl)                 | Clear, colourless to yellow solution                    |
| Transmittance                             | ≥ 95.0% (2.5% in water, 430nm, 10mm cell)               |
| Specific Optical Rotation                 | -30.5 - -32.5 ° (C=1, H <sub>2</sub> O)                 |
| Chloride (Cl)                             | ≤ 0.02%   |
| Ammonium (NH <sub>4</sub> )               | ≤ 0.02%   |
| Sulphate (SO <sub>4</sub> )               | ≤ 0.02%   |
| Iron (Fe)                                 | ≤ 10ppm   |
| Heavy Metals (as Pb)                      | ≤ 10ppm   |
| Arsenic (As <sub>2</sub> O <sub>3</sub> ) | ≤ 1ppm  |
| Related Substances                        | To pass test  |
| Loss on Drying                            | ≤ 0.2%  |
| Sulphated Ash                             | ≤ 0.1%  |
| pH  | 5.5 - 6.4 (1% in water)                                 |
| Endotoxins                                | ≤ 6.0EU/g   |
| Assay                                     | 99.0 - 101.0 %  |
| Pharmacopoeia Specification(s)            | USP, EP   |
| 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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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