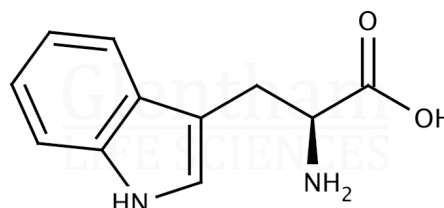


## Product Specification

Product Name	L-Tryptophan, GlenCell™, suitable for cell culture
Glentham Code	GM0192
CAS Number	73-22-3
EINECS	200-795-6
MDL-Nummer	MFCD00064340
Molecular Weight	204.23
Molecular Formula	$C_{11}H_{12}N_2O_2$
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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