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## Certificate of Analysis

Product Name L-Tryptophan, GlenCell™, suitable for cell culture

8710VB

 Glentham Code
 GM0192

 CAS Number
 73-22-3

 EINECS
 200-795-6

 MDL Number
 MFCD00064340

Molecular Weight 204.23

Batch Number

HN	$\bigcap_{NH_2}^{O}$ OH
HN	2

Property	Specification	Batch 8710VB
Physical Description	White to light yellow crystals or crystalline powder	White crystalline powder
Identification (IR)	To conform to standard	Conforms
Solubility	Sparingly soluble in water, slightly soluble in ethanol	Conforms
Solubility (1% in 1M HCI)	Clear, colourless to yellow solution	Clear, colourless solution
Transmittance	≥ 95.0% (2.5% in water, 430nm, 10mm cell)	Conforms
Specific Optical Rotation	-30.532.5 ° (C=1, H2O)	-31.8 °
Chloride (CI)	≤ 0.02%	Conforms
Ammonium (NH4)	≤ 0.02%	≤ 0.005%
Sulphate (SO4)	≤ 0.02%	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals (as Pb)	≤ 10ppm	≤ 5ppm
Arsenic (As2O3)	≤ 1ppm	Conforms
Related Substances	To pass test	Conforms
Loss on Drying	≤ 0.2%	0.0%
Sulphated Ash	≤ 0.1%	0.02%
рН	5.5 - 6.4 (1% in water)	6.1
Endotoxins	≤ 6.0EU/g	Conforms
Assay	99.0 - 101.0 %	100.2%
Pharmacopoeia Specification(s)	USP, EP	Conforms

Specification Version v1.0

Manufacture Date 2021-02-10

Re-Test Date 2032-07-18

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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