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## Certificate of Analysis

Product Name

L-Glutamine, GlenCell™, suitable for cell culture

Glentham Code

GM8887

CAS Number

56-85-9

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 56-85-9

 EINECS
 200-292-1

 MDL Number
 MFCD00008044

 Batch Number
 712DNB

 $\begin{array}{ll} \mbox{Molecular Weight} & \mbox{146.15} \\ \mbox{Molecular Formula} & \mbox{C}_5\mbox{H}_{10}\mbox{N}_2\mbox{O}_3 \\ \mbox{Storage Temp.} & \mbox{+}20\mbox{°C} \end{array}$ 

$$H_2N$$
 OH  $NH_2$ 

Property	Specification	Batch 712DNB
Physical Description	White crystals or crystalline powder	White crystalline powder
Identification	To pass test	Conforms
Solubility	Freely soluble in formic acid, soluble in water, practically insoluble in ethanol	Conforms
Solubility (2.5% in water)	Clear, colourless solution	Conforms
Transmittance	≥ 98.0%	99.2%
Specific Optical Rotation	+6.3 - +7.3 °	+6.3°
pH	4.5 - 6.0	5.4
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals (as Pb)	≤ 5ppm	Conforms
Arsenic (As2O3)	≤ 1ppm	≤ 0.1ppm
Related Substances	≤ 0.5%	Conforms
Loss on Drying	≤ 0.2%	0.03%
Sulphated Ash	≤ 0.1%	0.02%
Chloride (CI)	≤ 0.02%	Conforms
Sulphate (SO4)	≤ 0.02%	Conforms
Endotoxins	≤ 50EU/g	≤ 40Eu/g
Assay	99.0 - 101.0 % (dried basis)	100.0%
Origin	Non-animal origin	Conforms
Pharmacopoeia Specification(s)	EP, USP	Conforms

Specification Version v1.0

Manufacture Date 2021-10-29

Re-Test Date 2029-01-14

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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