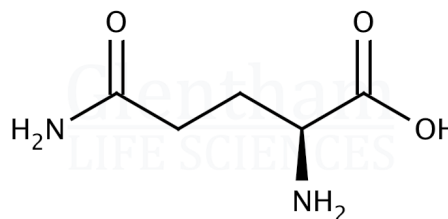


## Product Specification

Product Name	L-Glutamine, GlenCell™, suitable for cell culture
Glentham Code	GM8887
CAS Number	56-85-9
EINECS	200-292-1
MDL Number	MFCD00008044
Molecular Weight	146.15
Molecular Formula	$C_5H_{10}N_2O_3$
Storage Temp.	+20°C



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

Specification Version	- v1.0
Date Created	- 2016-03-18

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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