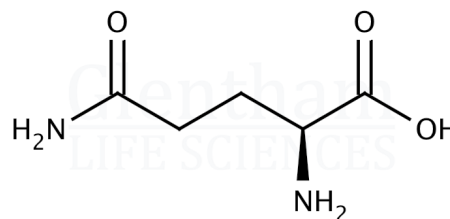


Product Specification

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 or contact us using the details above for the current version of this document.

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