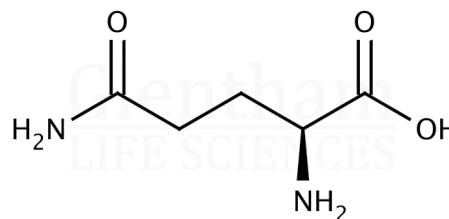


Product Specification

Product Name	L-Glutamine, USP grade, non-animal origin
Glentham Code	GM2001
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 powder
Identification (IR)	To conform to standard
Solubility (2.5% in water)	Clear, colourless solution
Specific Optical Rotation ($[\alpha]_{20/D}$)	+6.3 - +7.3 °
Iron (Fe)	≤ 10ppm
Heavy Metals	≤ 10ppm
Chloride	≤ 0.05%
Sulphate	≤ 0.03%
Residue on Ignition	≤ 0.1%
Loss on Drying	≤ 0.3% (105°C, 3h)
Assay	99.0 - 101.0 % (dried basis)
Pharmacopoeia Specification(s)	USP
Origin	Fermentation from microbial source (non-animal origin)

Specification Version	-	v1.0
Date Created	-	2017-10-17

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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