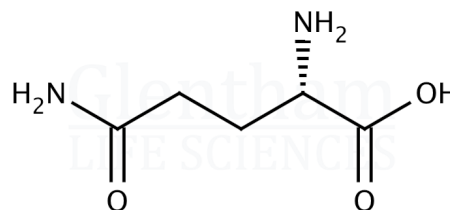


Certificate of Analysis

Product Name	L-Alanyl-L-glutamine, GlenCell™, suitable for cell culture
Glentham Code	GE4398
CAS Number	39537-23-0
MDL Number	MFCD00133046
Batch Number	153BEM
Molecular Weight	217.22
Molecular Formula	C ₈ H ₁₅ N ₃ O ₄
Storage Temp.	+20°C



Property	Specification	Batch 153BEM
Physical Description	White crystalline powder	Conforms
Identification	IR	Conforms
Specific Optical Rotation ([α] _{20/D})	+9.0 - +11.0 °	+10.2°
pH	5.0 - 6.0	5.4
Chloride (Cl)	≤ 0.02%	Conforms
Sulphate (SO ₄)	≤ 0.02%	Conforms
Ammonium (NH ₄)	≤ 0.02%	Conforms
Heavy Metals (as Pb)	≤ 5ppm	Conforms
Arsenic (As ₂ O ₃)	≤ 1ppm	Conforms
Loss on Drying	≤ 0.5%	0.5%
Sulphated Ash	≤ 0.1%	0.03%
Bacterial Endotoxins	≤ 50EU/g	Conforms
Assay (dried basis)	98.0 - 102.0 %	100.3%
Origin	Non-animal origin	Conforms

Specification Version	v1.0
Manufacture Date	2023-05-23
Re-Test Date	2030-08-23

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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