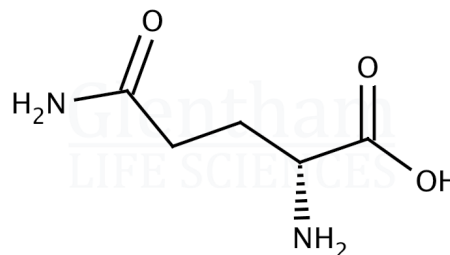


Certificate of Analysis

Product Name	D-Glutamine
Glentham Code	GM5255
CAS Number	5959-95-5
MDL Number	MFCD00065607
PubChem SID	310274234
Batch Number	021BRN
Molecular Weight	146.14
Molecular Formula	$C_5H_{10}N_2O_3$
Storage Temp.	+20°C



Property	Specification	Batch 021BRN
Physical Description	White or almost white crystalline powder	White crystalline powder
Solubility (5% in 1M HCl)	Clear, colourless solution	Conforms
Specific Optical Rotation ([α] ₂₀ /D)	-7.5 - -5.5 ° (c=4, water)	-6.7°
Loss on Drying	≤ 1.0%	0.25%
Assay	≥ 98.0%	98.8%

Specification Version	v1.0
Manufacture Date	2018-04-04
Re-Test Date	2028-06-15

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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