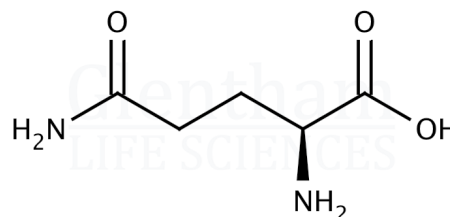


Certificate of Analysis

Product Name L-Glutamine
Glentham Code GM6582
CAS Number 56-85-9
EINECS 200-292-1
MDL Number MFCD00008044
PubChem SID 310274235
Batch Number 807VWN

Molecular Weight 146.15
Molecular Formula $C_5H_{10}N_2O_3$
Storage Temp. +20°C



Property	Specification	Batch 807VWN
Physical Description	White to almost white crystalline powder	Conforms
Assay	98.5 - 101.5 %	99.8%
Identification	IR	Conforms
Specific Optical Rotation	6.3 - 7.3 ° (c=4, H2O, 20°C)	+6.7 °
Loss on Drying	≤ 0.3%	≤ 0.1%
Residue on Ignition	≤ 0.1%	Conforms
Lead (Pb)	≤ 3ppm	≤ 1ppm
Cadmium (Cd)	≤ 1ppm	Conforms
Mercury (Hg)	≤ 0.1ppm	Conforms

Specification Version v1.1
Manufacture Date 2021-10-23
Re-Test Date 2030-05-18

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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