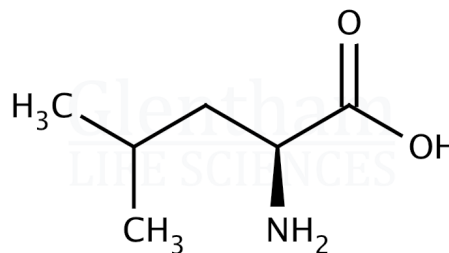


Certificate of Analysis

Product Name	L-Leucine
Glentham Code	GM6205
CAS Number	61-90-5
EINECS	200-522-0
MDL Number	MFCD00002617
PubChem SID	310275745
Batch Number	592AAT

Molecular Weight	131.18
Molecular Formula	$C_6H_{13}NO_2$
Storage Temp.	+20°C



Property	Specification	Batch 592AAT
Physical Description	White crystals or crystalline powder	White crystalline powder
Assay	98.5 - 101.5 %	99.8%
Identification	IR	Conforms
pH	5.5 - 7.0	5.58
Specific Optical Rotation	+14.9 - +17.3 °	+15.7 °
Residue on Ignition	≤ 0.1%	0.09%
Loss on Drying	≤ 0.2%	0.14%
Chloride (Cl)	≤ 0.05%	≤ 0.02%
Iron (Fe)	≤ 30ppm	≤ 10ppm
Sulphate (SO4)	≤ 0.03%	Conforms
Heavy Metals	≤ 15ppm	≤ 10ppm
Lead (Pb)	≤ 3ppm	Conforms
Arsenic (As)	≤ 1ppm	Conforms
Cadmium (Cd)	≤ 1ppm	Conforms
Mercury (Hg)	≤ 0.1ppm	Conforms
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version	v1.1
Manufacture Date	2021-03-08
Re-Test Date	2031-06-01

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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