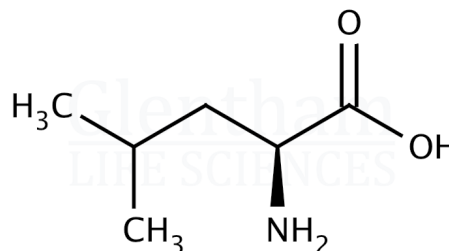


Certificate of Analysis

Product Name	L-Leucine, GlenCell™, suitable for cell culture
Glentham Code	GM0001
CAS Number	61-90-5
EINECS	200-522-0
MDL Number	MFCD00002617
Batch Number	635EVX

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



Property	Specification	Batch 635EVX
Physical Description	White crystals or crystalline powder	White crystalline powder
Identification	IR	Conforms
Solubility	Freely soluble in formic acid, sparingly soluble in water, practically insoluble in ethanol	Conforms
Solubility (5% in water)	Clear, colourless solution	Conforms
Transmittance	≥ 98.0% (5% in water, 430nm, 10mm cell)	100.0%
Specific Optical Rotation	+14.9 - +16.0 ° (C=4, 6M HCl)	+15.3 °
Chloride (Cl)	≤ 0.02%	Conforms
Ammonium (NH4)	≤ 0.02%	Conforms
Sulphate (SO4)	≤ 0.02%	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals (as Pb)	≤ 10ppm	≤ 5ppm
Arsenic (As2O3)	≤ 1ppm	Conforms
Related Substances	To pass test	Conforms
Loss on Drying	≤ 0.2%	0.0%
Sulphated Ash	≤ 0.1%	Conforms
pH	5.5 - 6.5 (1% in water)	5.9
Endotoxins	≤ 6.0EU/g	≤ 3.0EU/g
Assay	98.5 - 101.0 %	100.0%
Origin	Non-animal origin	Conforms
Pharmacopoeia Specification(s)	Ph. Eur., USP	Conforms

Specification Version	v1.0
Manufacture Date	2021-02-04
Re-Test Date	2030-08-01

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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