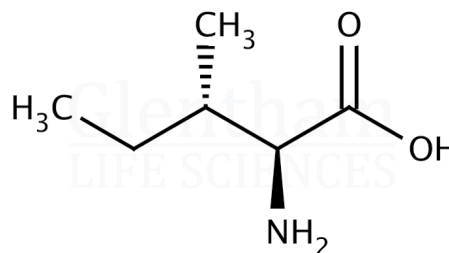


Certificate of Analysis

Product Name	L-Isoleucine, GlenCell™, suitable for cell culture
Glentham Code	GM8967
CAS Number	73-32-5
EINECS	200-798-2
MDL Number	MFCD00064222
Batch Number	515HOS
Molecular Weight	131.18
Molecular Formula	$C_6H_{13}NO_2$
Storage Temp.	+20°C



Property	Specification	Batch 515HOS
Physical Description	White crystals or crystalline powder	White crystalline powder
Identification	IR	Conforms
Solubility (5% in 1M HCl)	Clear, colourless solution	Clear, colourless solution
Transmittance	≥ 98.0%	Conforms
Specific Optical Rotation	+39.5 - +41.5 °	+41.5 °
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
Valine	≤ 0.3%	0.1%
Leucine	≤ 0.3%	0.0%
Any Unspecified Impurity	≤ 0.2%	0.0%
Total Impurities	≤ 1.0%	0.1%
Residue on Ignition	≤ 0.1%	0.03%
Loss on Drying	≤ 0.2%	0.00%
pH (10% in water)	5.5 - 6.5	6.2
Endotoxins	≤ 6.0EU/g	3.0EU/g
Assay	99.0 - 101.0 %	99.9%
Pharmacopoeia Specification(s)	EP, USP	Conforms
Origin	Non-animal origin	Conforms

Specification Version	v1.1
Manufacture Date	2021-06-30
Re-Test Date	2029-01-18

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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