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## Certificate of Analysis

Product Name	L-Valine, GlenCell™, suitable for cell culture	
Glentham Code	GM3894	
CAS Number	72-18-4	H <sub>3</sub> C –
EINECS	200-773-6	
Numéro MDL	MFCD00064220	
Batch Number	426JHU	
Molecular Weight	117.15	НО —
Molecular Formula	C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub>	
Storage Temp.	+20°C	

Property	Specification	Batch 426JHU
Physical Description	White crystals or crystalline powder	White crystalline powder
Identification	IR	Conforms
Solubility	Freely soluble in water and in formic acid, practically insoluble in ethanol	Conforms
Solubility (2.5% in water)	Clear, colourless solution	Conforms
Transmittance	≥ 98.0% (2.5% in water, 430nm, 10mm cell)	100.0%
Specific Optical Rotation	+27.6 - +28.7 ° (C=8, 6M HCI)	+28.1°
Chloride (Cl)	≤ 0.02%	≤ 0.02%
Ammonium (NH4)	≤ 0.02%	≤ 0.02%
Sulphate (SO4)	≤ 0.02%	≤ 0.02%
Iron (Fe)	≤ 10ppm	≤ 10ppm
Heavy Metals (as Pb)	≤ 10ppm	≤ 5ppm
Arsenic (As2O3)	≤ 1ppm	≤ 1ppm
Related Substances	To pass test	Conforms
Loss on Drying	≤ 0.2%	0.00%
Sulphated Ash	≤ 0.1%	0.03%
рН	5.5 - 6.5 (2.5% in water)	6.0
Endotoxins	≤ 6.0EU/g	≤ 3.0EU/g
Assay	98.5 - 101.0 %	100.0%
Origin	Non-animal origin	Conforms

Specification Version	v1.0
Manufacture Date	2019-10-21
Re-Test Date	2025-04-27

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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