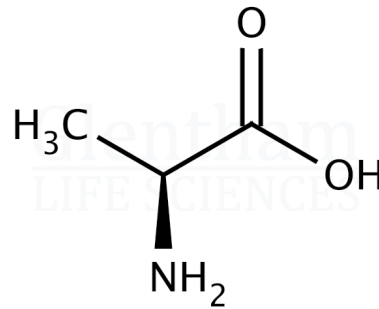


Certificate of Analysis

Product Name	L-Alanine, GlenCell™, suitable for cell culture
Glentham Code	GM0361
CAS Number	56-41-7
EINECS	200-273-8
MDL Number	MFCD00064410
Batch Number	634AKK
Molecular Weight	89.09
Molecular Formula	C ₃ H ₇ NO ₂
Storage Temp.	+20°C



Property	Specification	Batch 634AKK
Physical Description	White crystals or crystalline powder	White crystalline powder
Identification	IR	Conforms
Solubility (10% in water)	Clear, colourless solution	Conforms
Transmittance	≥ 98.0%	100.1%
Specific Optical Rotation	+14.3 - +15.2 °	+14.5°
Chloride (Cl)	≤ 0.02%	≤ 0.02%
Ammonium (NH ₄)	≤ 0.02%	≤ 0.02%
Sulphate (SO ₄)	≤ 0.02%	≤ 0.02%
Iron (Fe)	≤ 10ppm	≤ 10ppm
Heavy Metals (as Pb)	≤ 10ppm	≤ 5ppm
Arsenic (As ₂ O ₃)	≤ 1ppm	≤ 1ppm
Any Unspecified Impurity	≤ 0.1%	Not detected
Total Impurities	≤ 0.5%	Not detected
Residue on Ignition	≤ 0.1%	0.00%
Loss on Drying	≤ 0.2%	0.02%
pH (10% in water)	5.7 - 6.7	6.1
Endotoxins	≤ 6.0EU/g	≤ 3.0EU/g
Assay	99.0 - 101.0 % (dried basis)	99.6%
Origin	Non-animal origin	Conforms

Specification Version	v1.0
Manufacture Date	2018-06-12
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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