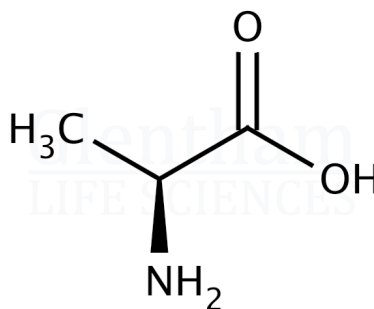


## Product Specification

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



Property	Specification
Physical Description	White crystals or crystalline powder
Identification	IR
Solubility (10% in water)	Clear, colourless solution
Transmittance	≥ 98.0%
Specific Optical Rotation	+14.3 - +15.2 °
Chloride (Cl)	≤ 0.02%
Ammonium (NH <sub>4</sub> )	≤ 0.02%
Sulphate (SO <sub>4</sub> )	≤ 0.02%
Iron (Fe)	≤ 10ppm
Heavy Metals (as Pb)	≤ 10ppm
Arsenic (As <sub>2</sub> O <sub>3</sub> )	≤ 1ppm
Any Unspecified Impurity	≤ 0.1%
Total Impurities	≤ 0.5%
Residue on Ignition	≤ 0.1%
Loss on Drying	≤ 0.2%
pH (10% in water)	5.7 - 6.7
Endotoxins	≤ 6.0EU/g
Assay	99.0 - 101.0 % (dried basis)
Origin	Non-animal origin

Specification Version	-	v1.0
Date Created	-	2016-08-18

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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