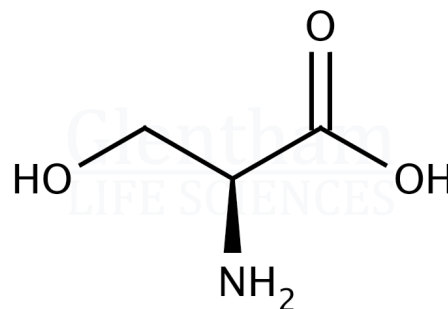


## Product Specification

Product Name	L-Serine, GlenCell™, suitable for cell culture
Glentham Code	GM7000
CAS Number	56-45-1
EINECS	200-274-3
MDL-Nummer	MFCD00064224
Molecular Weight	105.09
Molecular Formula	C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub>
Storage Temp.	+20°C



Property	Specification
Physical Description	White crystals or crystalline powder
Identification	IR
Solubility	Freely soluble in water and in formic acid, practically insoluble in ethanol
Solubility (5% in water)	Clear, colourless solution
Transmittance	≥ 98.0% (5% in water, 430nm, 10mm cell)
Specific Optical Rotation	+14.4 - +15.5 ° (c=10, 2M HCl)
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
Related Substances	To pass test
Loss on Drying	≤ 0.2%
Sulphated Ash	≤ 0.1%
pH	5.2 - 6.2 (10% in water)
Residual Solvents	≤ 200ppm (Methanol)
Endotoxins	≤ 6.0EU/g
Assay	98.5 - 101.0 %
Origin	Non-animal origin

Specification Version	- v1.0
Date Created	- 2016-04-22

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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