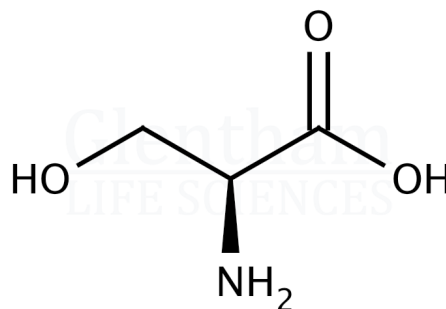


Product Specification

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 ₃ H ₇ NO ₃
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 ₄)	≤ 0.02%
Sulphate (SO ₄)	≤ 0.02%
Iron (Fe)	≤ 10ppm
Heavy Metals (as Pb)	≤ 10ppm
Arsenic (As ₂ O ₃)	≤ 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 or contact us using the details above for the current version of this document.

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