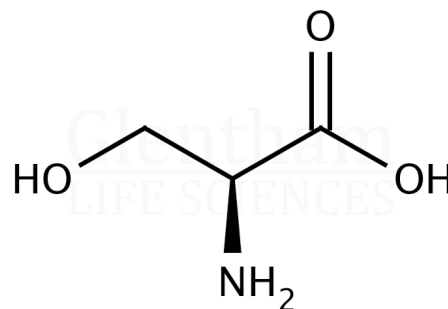


## Product Specification

Product Name	L-Serine
Glentham Code	GM1114
CAS Number	56-45-1
EINECS	200-274-3
MDL Number	MFCD00064224
PubChem SID	310279962
Molecular Weight	105.09
Molecular Formula	$C_3H_7NO_3$
Storage Temp.	+20°C



Property	Specification
Physical Description	White crystals or crystalline powder
Identification (IR)	To conform to standard
Solubility (5% in water)	Clear, colourless solution
Specific Optical Rotation ( $[\alpha]_{20/D}$ )	+14.0 - +15.6 °
Chloride	≤ 0.05%
Sulphate	≤ 0.03%
Iron (Fe)	≤ 30ppm
Heavy Metals (as Pb)	≤ 15ppm
Any Individual Impurity	≤ 0.5%
Total Impurities	≤ 2.0%
Residue on Ignition	≤ 0.1%
Loss on Drying	≤ 0.2%
Assay	98.5 - 101.5 % (dried basis)
Pharmacopoeia Specification(s)	USP

Specification Version	-	v1.1
Date Created	-	2022-02-04

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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