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Certificate of Analysis

Product Name	L-Serine		
Glentham Code	GM1114		0
CAS Number	56-45-1		11
EINECS	200-274-3		
MDL Number	MFCD00064224	4	$\land \land$
PubChem SID	310279962	Н	
Batch Number	755XSL		CIPE SQ ENCES
Molecular Weight	105.09		
Molecular Formula	C ₃ H ₇ NO ₃		NH ₂
Storage Temp.	+20°C		2
Property		Specification	Batch 755XSL
Physical Description		White crystals or crystalline powd	er White crystalline powder
Identification (IR)		To conform to standard	Conforms
Solubility (5% in water)		Clear, colourless solution	Conforms
Specific Optical Rotation ([α]20/D)		+14.0 - +15.6 °	+15.4°
Chloride		≤ 0.05%	Conforms
Sulphate		≤ 0.03%	Conforms
Iron (Fe)		≤ 30ppm	Conforms
Heavy Metals (as Pb)		≤ 15ppm	Conforms
Any Individual Impurity		≤ 0.5%	Conforms
Total Impurities		≤ 2.0%	Conforms
Residue on Ignition		≤ 0.1%	0.0%
Loss on Drying		≤ 0.2%	0.02%
Assay		98.5 - 101.5 % (dried basis)	100.1%
Pharmacopoeia Specification(s)		USP	Conforms to USP

v1.1
2021-05-30
2030-02-04

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 or contact us using the details above for the current version of this document.

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