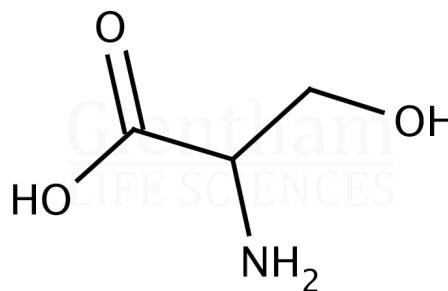


Certificate of Analysis

Product Name	DL-Serine
Glentham Code	GM9506
CAS Number	302-84-1
EINECS	206-130-6
MDL Number	MFCD00064223
PubChem SID	310272455
Batch Number	864MTP
Molecular Weight	105.09
Molecular Formula	C ₃ H ₇ NO ₃
Storage Temp.	+20°C



Property	Specification	Batch 864MTP
Physical Description	White to almost white crystalline powder	Almost white crystalline powder
Identification (IR)	To conform to standard	Conforms
Solubility (10% in water)	Clear, colourless solution	Clear, colourless solution
Specific Optical Rotation	-0.5 - +0.5 ° (c=2, water)	+0.1°
Chloride (Cl)	≤ 0.05ppm	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals	≤ 10ppm	Conforms
Residue on Ignition	≤ 0.1%	Conforms
Loss on Drying	≤ 0.5%	0.4%
Assay	98.5 - 101.0 % (dried basis)	99.5%

Specification Version	v1.1
Manufacture Date	2021-12-06
Re-Test Date	2030-01-04

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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