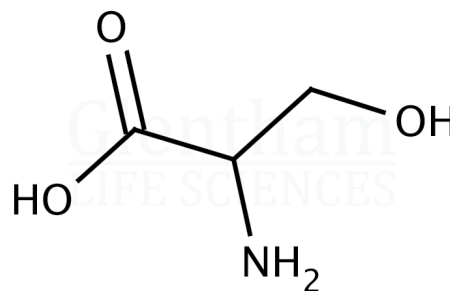


## Certificate of Analysis

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 <sub>3</sub> H <sub>7</sub> NO <sub>3</sub>
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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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