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Certificate of Analysis

Product Name	L-Serine, GlenCell™, suitable for cell culture	_
Glentham Code	GM7000	
CAS Number	56-45-1	
EINECS	200-274-3	Classia
MDL Number	MFCD00064224	
Batch Number	664CVA	HO
Molecular Weight	105.09	
Molecular Formula	$C_3H_7NO_3$	_ N
Storage Temp.	+20°C	ı

Property Specification Batch 664CVA Physical Description White crystals or crystalline powder White crystals Identification IR Conforms Conforms Solubility Freely soluble in water and in formic acid, practically insoluble in ethanol Solubility (5% in water) Conforms Clear, colourless solution ≥ 98.0% (5% in water, 430nm, 10mm cell) 100.1% Transmittance Specific Optical Rotation +14.4 - +15.5 ° (c=10, 2M HCI) +15.4° ≤ 0.02% Chloride (CI) Conforms Ammonium (NH4) ≤ 0.02% Conforms Sulphate (SO4) ≤ 0.02% Conforms Conforms Iron (Fe) ≤ 10ppm Heavy Metals (as Pb) ≤ 5ppm ≤ 10ppm Arsenic (As2O3) Conforms ≤ 1ppm Related Substances To pass test Conforms ≤ 0.2% 0.02% Loss on Drying ≤ 0.1% 0.0% Sulphated Ash 5.2 - 6.2 (10% in water) 5.8 Residual Solvents ≤ 200ppm (Methanol) Conforms **Endotoxins** ≤ 6.0EU/g ≤ 3.0EU/g 98.5 - 101.0 % 100.1% Assay Origin Non-animal origin Conforms

Specification Version v1.0

Manufacture Date 2021-05-30

Re-Test Date 2029-01-18

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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