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PVT. LTD.**

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Certificate of Analysis

Product	63503 - L-Serine for tissue culture, 99% - [56-45-1]
Batch No	9485672
Analysis Date	26-Nov-2022
Date of Manufacture	November 2022
Expiry Date/Re-Test Date	November 2027
Molecular Formula	C3H7NO3
Molecular Weight	105.09

Test Parameters	Standards	Actual Results
Appearance (Colour)	White	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% solution 2N HCl	Clear	Clear
Solubility (Colour) 10% solution 2N HCl	Colourless	Colourless
Assay (NT)	min. 99%	99.3%
Specific rotation $[\alpha]$	+12° to +14° (C=2, 5N HCl)	+13.141°
Sulphated Ash	max. 0.1%	0.04%
Loss on drying	max. 0.5%	0.2%
Chloride (Cl)	max. 0.01%	Passes
Sulphate (SO4)	max. 0.01%	Passes
Iron (Fe)	max. 0.001%	Passes
Heavy Metals (Pb)	max. 0.001%	Passes
Ammonium (NH4)	max. 0.01%	Passes
Homogeneity by TLC	Passes test	Passes
Suitability for Tissue Culture	Passes	Passes

FRM/82/11/4/63503 Rev No. 1 Date 27/11/2022

Prepared by Komal

In compliance with the standard specifications of SRL

Plant Site 2 : H-4, MIDC, Talaja – 410 208, Maharashtra, India

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