



**SISCO  
RESEARCH  
LABORATORIES  
PVT. LTD.**

[www.srlchem.com](http://www.srlchem.com)

## Certificate of Analysis

<b>Product</b>	<b>59260 - L-Serine for cell culture, 99% - [56-45-1]</b>
<b>Batch No</b>	<b>1809412</b>
<b>Analysis Date</b>	22-Apr-2021
<b>Date of Manufacture</b>	April 2021
<b>Expiry Date/Re-Test Date</b>	April 2026
<b>Molecular Formula</b>	C3H7NO3
<b>Molecular Weight</b>	105.09

Test Parameters	Standards	Actual Results
Appearance (Colour)	White	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% solution in 2N HCl	Clear	Clear
Solubility (Colour) 5% solution in 2N HCl	Colourless	Colourless
Assay (NT)	min. 99%	99.7%
Specific rotation $[\alpha]$	+12° to +14° (C=2, 5N HCl)	+12.5°
Loss on drying	max. 0.5%	0.1%
Sulphated Ash	max. 0.1%	0.08%
Chloride (Cl)	max. 0.01%	Passes
Sulphate (SO <sub>4</sub> )	max. 0.01%	Passes
Iron (Fe)	max. 0.001%	Passes
Heavy Metals (Pb)	max. 0.001%	Passes
Ammonium (NH <sub>4</sub> )	max. 0.01%	Passes
Homogeneity by TLC	Passes test	Passes
Suitability for Cell Culture	Passes	Passes
Bacterial Endotoxin Test (BET) (EU/mg = IU/mg)	< 1 EU/mg	Passes

FRM/82/11/4/59260 Rev No. 1 Date 25/04/2021

Prepared by **Sonali**

In compliance with the standard specifications of SRL

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

608-B, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Chakala, Andheri (E), Mumbai - 400 099. India. ☎ +91-22-4268 5800

1/1

[an ISO 9001-2015, 17025:2017, CE, GMP Certified Company](#)

This COA has been generated electronically and it is valid without signature.