



**SISCO  
RESEARCH  
LABORATORIES  
PVT. LTD.**

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

## Certificate of Analysis

|                                 |  |
|---------------------------------|--|
| <b>Product</b>                  | <b>84131 - L-Serine extrapure CHR, 99% - [56-45-1]</b> |
| <b>Batch No</b>                 | <b>7169069</b>   |
| <b>Analysis Date</b>            | 29-Mar-2024  |
| <b>Date of Manufacture</b>      | March 2024   |
| <b>Expiry Date/Re-Test Date</b> | March 2029   |
| <b>Molecular Formula</b>        | C3H7NO3  |
| <b>Molecular Weight</b>         | 105.09   |

| Test Parameters                            | Standards                  | Actual Results     |
|--|----------------------------|--------------------|
| Appearance (Colour)                        | White to off white         | White              |
| Appearance (Form)                          | Crystalline powder         | Crystalline powder |
| Solubility (Turbidity) 10% solution 2N HCl | Clear                      | Clear              |
| Assay (NT)                                 | min. 99%                   | 99.5%              |
| Specific rotation [ $\alpha$ ]             | +12° to +14° (C=2, 5N HCl) | +13.410°           |
| Sulphated Ash                              | max. 0.1%                  | 0.09%              |
| Loss on drying                             | max. 0.5%                  | 0.03%              |
| 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             |

FRM/82/11/4/84131 Rev No. 2 Date 16/08/2023

Prepared by Vivek

In compliance with the standard specifications of SRL

Plant Site 2 : H-4, MIDC, Talaja – 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.