

CERTIFICATE OF ANALYSIS

PRODUCT NAME : L-THREONINE FOR BIOCHEMISTRY

| | | | |
|-------------------------|---|---------------------|----------------|
| CAS No | : 72-19-5 | Product code | : 54060 |
| Mol. Formula | : C ₄ H ₉ NO ₃ | Batch No | : MCR-28384-02 |
| Mol. WT | : 119.12 | Mfd. | : May 2025 |
| Date of analysis | : 26/05/25 | Exp. | : April 2030 |

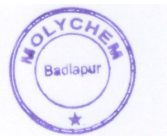
| S. R | Test | Specification | Observation |
|---------|---|---------------------------|---------------------------|
| 1 | Description | White crystalline powder. | White crystalline powder. |
| 2 | Assay (HClO₄ titration) | 99% min. | 99.58% |
| 3 | Specific rotation [α]²⁰_D C =2, water | - 29 to - 27 ⁰ | -28.5 ⁰ |
| 4 | Loss on drying at 105°C | 0.5% max. | 0.34% |
| 5 | Chloride (Cl) | 0.01% max | < 0.01% |
| 6 | Sulphate (SO₄) | 0.01% max | < 0.01% |
| 7 | Iron (Fe) | 0.001% max | < 0.001% |
| 8 | Heavy metals (Pb) | 0.001% max | < 0.001% |
| 9 | Ammonium (NH₄) | 0.01% max | < 0.01% |

REMARK: THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

[Tested By]



**CHEMIST
(Sayli)**



[QC Incharge]



**HEAD-QUALITY ASSURANCE
(G.G.Salian)**

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