



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : L-THREONINE FOR BIOCHEMISTRY**

<b>CAS No</b>	<b>: 72-19-5</b>	<b>Product code</b>	<b>: 54060</b>
<b>Mol. Formula</b>	<b>: C<sub>4</sub>H<sub>9</sub>NO<sub>3</sub></b>	<b>Batch No</b>	<b>: MCR-24657</b>
<b>Mol. WT</b>	<b>: 119.12</b>	<b>Mfd.</b>	<b>: Dec. 2021</b>
<b>Date of analysis</b>	<b>: 15/12/21</b>	<b>Exp.</b>	<b>: Nov. 2026</b>

S. R	Test	Specification	Observation
1	Description	White crystalline powder.	White crystalline powder.
2	Assay (HClO <sub>4</sub> titration)	99% min.	99.46%
3	Specific rotation $[\alpha]^{20}_D$ C =2, water	- 29 to - 27 <sup>0</sup>	-29.13 <sup>0</sup>
4	Loss on drying at 105°C	0.5% max.	0.48%
5	Chloride (Cl)	0.01% max	< 0.01%
6	Sulphate (SO <sub>4</sub> )	0.01% max	< 0.01%
7	Iron (Fe)	0.001% max	< 0.001%
8	Heavy metals (Pb)	0.001% max	< 0.001%
9	Ammonium (NH <sub>4</sub> )	0.01% max	< 0.01%

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**

**[QC Incharge]**

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

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Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503**



**Note:** Computer generated image requires no sign.

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