

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : L- TRYPTOPHAN**

<b>CAS No</b>	: 73-22-3	<b>Product code</b>	: 19680
<b>Mol. Formula</b>	: C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>	<b>Batch No</b>	: MCR-24063-03
<b>Mol. Wt</b>	: 204.23	<b>Mfd.</b>	: July 2024
<b>Date of analysis</b>	: 15/07/24	<b>Exp.</b>	: June 2029

S.R	Test	Specification	Observation
1	<b>Description</b>	White to almost white powder	Almost white powder.
2	<b>Assay</b>	99% min	99.38%
3	<b>Heavy metals (as Pb)</b>	0.001% max	<0.001%
4	<b>Ammonium (NH<sub>4</sub>)</b>	0.01% max	< 0.01%
5	<b>Loss on drying at 105<sup>0</sup>C</b>	0.5% max	0.39%
6	<b>Chloride (Cl)</b>	0.01% max	<0.01%
7	<b>Sulphate (SO<sub>4</sub>)</b>	0.01% max	<0.01
8	<b>Iron (Fe)</b>	0.001% max	<0.001
9	<b>Specific rotation[α]<sup>20</sup><sub>D</sub> (C = 1,water)</b>	- 33 to -30 <sup>0</sup>	-31.8 <sup>0</sup>

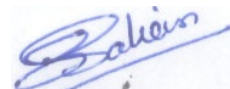
**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**



**CHEMIST  
(Asmita)**

**[QC Incharge]**



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

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