



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : L- TRYPTOPHAN**

**CAS No : 73-22-3**  
**Mol. Formula : C<sub>11</sub> H<sub>12</sub> N<sub>2</sub> O<sub>2</sub>**  
**Mol. WT : 204.23**  
**Date of analysis : 25/08/21**

**Product code : 19680**  
**Batch No : MCR-24063**  
**Mfd. : Aug. 2021**  
**Exp. : July 2026**

S. R	Test	Specification	Observation
1	Description	White to almost white powder	Almost white powder.
2	Assay	99% min	99.98%
3	Heavy metals (as Pb)	0.001% max	<0.001%
4	Ammonium (NH <sub>4</sub> )	0.01% max	< 0.01%
5	Loss on drying at 105 <sup>0</sup> C	0.5% max	0.30%
6	Chloride (Cl)	0.01% max	<0.01%
7	Sulphate (SO <sub>4</sub> )	0.01% max	<0.01
8	Iron (Fe)	0.001% max	<0.001
9	Specific rotation[α] <sup>20</sup> <sub>D</sub> (C = 1,water)	- 33 to -30 <sup>0</sup>	-31.5 <sup>0</sup>

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

**[Tested By]**

**[QC Incharge]**

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

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

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