CERTIFICATE OF ANALYSIS

PRODUCT NAME : L- TRYPTOPHAN

CAS No	**: 73-22-3**	**Product code**	**: 19680**
Mol. Formula	**: $C_{11}H_{12}N_2O_2$**	**Batch No**	**: MCR-20360-01**
Mol. WT	**: 204.23**	**Mfd.**	**: July 2021**
Date of analysis	**: 24/07/21**	**Exp.**	**: June 2026**

S. R	Test	Specification	Observation
1	**Description**	White to almost white powder	White powder.
2	**Assay**	99% min	99.78%
3	**Heavy metals (as Pb)**	0.001% max	<0.001%
4	**Ammonium (NH_4)**	0.01% max	< 0.01%
5	**Loss on drying at 105^0C**	0.5% max	0.21%
6	**Chloride (Cl)**	0.01% max	<0.01%
7	**Sulphate (SO_4)**	0.01% max	<0.01
8	**Iron (Fe)**	0.001% max	<0.001
9	**Specific rotation$[\alpha]^{20}_D$ (C = 1,water)**	- 33 to -30^0	-31.5^0

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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