



CERTIFICATE OF ANALYSIS

Date: 21/08/17

PRODUCT NAME : L- TRYPTOPHAN

CAS No : 73-22-3
Mol. Formula : $C_{11}H_{12}N_2O_2$
Mol. WT : 204.23
Exp. : July 2022

Product code : 19680
Batch No : MCR-14175
Mfd. : Aug. 2017

| S. R | Test | Specification | Observation |
|------|--|---------------|-------------|
| 1 | Assay | 99% min | 99.66% |
| 2 | Heavy metals (as Pb) | 0.001% max | <0.001% |
| 3 | Ammonium (NH ₄) | 0.01% max | < 0.01% |
| 4 | Loss on drying at 105 ⁰ C | 0.5% max | 0.06% |
| 5 | Chloride (Cl) | 0.01% max | <0.01% |
| 6 | Sulphate (SO ₄) | 0.01% max | <0.01 |
| 7 | Iron (Fe) | 0.001% max | <0.001 |
| 8 | Specific rotation $[\alpha]_D^{20}$ (C = 1, water) | - 33 to -30 | -32.5 |

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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