

## SPECIFICATION

## L-Tryptophan

## Guaranteed Reagent

| REQUIREMENT                         | SPECIFICATION                              |
|-------------------------------------|--|
| * Appearance                        | White ~ slightly brown, crystalline powder |
| Assay                               | min.99.0%                                  |
| Solubility in hydrochloric acid     | to pass test                               |
| Specific rotation [ $\alpha$ ]D20   | -30.5~-32.5°                               |
| Loss on drying at 105°C             | max.0.2%                                   |
| Residue after ignition (as sulfate) | max.0.05%                                  |
| Chloride (Cl)                       | max.0.01%                                  |
| Sulfate (SO <sub>4</sub> )          | max.0.02%                                  |
| Heavy metals (as Pb)                | max.0.001%                                 |
| Arsenic (As)                        | max.1ppm                                   |
| Iron (Fe)                           | max.0.001%                                 |
| Ammonium (NH <sub>4</sub> )         | max.0.02%                                  |
| Foreign amino acids                 | to pass test                               |

JIS K 8676-1995

\*:Additional test performed by Wako but not required by JIS