

## SPECIFICATION

## L-Tryptophan

## Guaranteed Reagent

REQUIREMENT	SPECIFICATION
* Appearance Assay (C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> ) Solubility in hydrochloric acid Specific rotation [ $\alpha$ ] <sub>D20</sub> Loss on drying at 105°C Residue after ignition (as sulfate) Chloride (Cl) Sulfate (SO <sub>4</sub> ) Lead (Pb) Arsenic (As) Iron (Fe) Ammonium (NH <sub>4</sub> ) Foreign amino acids	White ~ slightly brown, crystalline powder min.99.0%(mass/mass) to pass test -30.5~-32.5° max.0.2%(mass/mass) max.0.05%(mass/mass) max.0.01%(mass/mass) max.0.02%(mass/mass) max.0.001%(mass/mass) max.1ppm(mass/mass) max.0.001%(mass/mass) max.0.02%(mass/mass) to pass test

JIS K 8676 : 2023(\*:Additional test performed by Wako but not required by JIS)