

## **Quality Specification of L-Tryptophan**

Product: **L-Tryptophan**

CAS Number: 73-22-3

Quality Standard: **USP/AJI**

Shelf Life: 2 Years

<b>Item</b>	<b>Specification</b>
Appearance	White to yellowish crystals or crystalline Powder
Identification (IR)	Meet the requirement
Assay	99.0% ~ 100.5%
Specific Rotation $[\alpha]_D^{20}$	-30.5~32.5°
pH Value	5.4 to 6.4
State of Solution	≥ 95.0%
Chloride (Cl)	≤ 0.020%
Ammonium (NH <sub>4</sub> )	≤ 0.02%
Sulfate (SO <sub>4</sub> )	≤ 0.020%
Iron (Fe)	≤ 10 ppm
Heavy metals (Pb)	≤ 10 ppm
Arsenic (As <sub>2</sub> O <sub>3</sub> )	≤ 1 ppm
Other Amino Acids	≤ 0.5%
Loss on Drying	≤ 0.20%
Residue on Ignition	≤ 0.1%
Organic Volatile Impurities	Meet the requirement
Total plate Count	≤ 1000 cfu/g
Mold and Yeasts	≤ 100 cfu/g
E. Coli	Negative/10g

Storage: Store in dry place and keep away from strong direct light and heat.

**Note:** The product is tested in accordance with USP/AJI quality standards.

An actual batch product's quality meets or is better than the specification requirements.