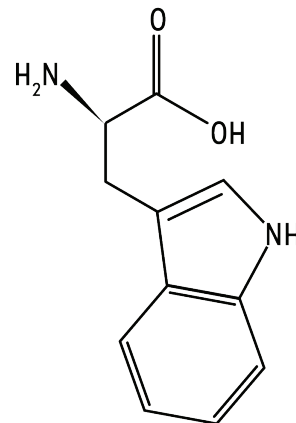


Product Specification

Product Name	L-Tryptophan
Compendia	USP/EP/JP
CAS #	73-22-3
Formula	C ₁₁ H ₁₂ N ₂ O ₂
Molecular Weight	204.23
Description	White to yellowish white crystals or crystalline powder; slightly bitter taste.
Solubility	Freely soluble in formic acid, slightly soluble in water, very slightly soluble in ethanol (95). Dissolves in dilute hydrochloric acid.
Identification	Compare the infrared absorption spectrum of the sample with that of the standard by potassium bromide disc method.



Test	Specification
Specific Rotation @ 20°C	-30.5 to -32.5°
State of Solution	Clear and Colorless; Not less than 95.0%
Chloride (Cl)	Not more than 0.020%
Ammonium (NH₄)	Not more than 0.02%
Sulfate (SO₄)	Not more than 0.020%
Iron (Fe)	Not more than 10ppm
Heavy Metals (Pb)	Not more than 10ppm
Arsenic (As₂O₃)	Not more than 1ppm
Related Substances	1) Conforms 2) Any unspecified impurity: Not more than 0.20%; Total impurities: Not more than 0.50% 3) EBT not detected; Total impurities 1: Not more than 100ppm; Total impurities 2: Not more than 100ppm
Loss of Drying	Not more than 0.20%
Residue on ignition (Sulfated)	Not more than 0.10%
Assay	99.0 to 101.0%
pH	5.5 to 6.4
Endotoxin	Less than 6.0EU/g