



Certificate of Analysis

Product Name:	L-Tryptophan	Batch Number:	Varies
CAS No.	73-22-3	Manufacture Date:	Varies
Molecular Formula:	C₁₁H₁₂N₂O₂	Expiry Date:	Varies

IDENTIFICATION		SPECIFICATION	RESULT
Assay (HPLC)		98.5 - 101.5%	99.2 - 99.5%
Physical	Appearance	White to slightly yellowish white crystals or crystalline powder	Complies
	Specific rotation	-29.4° - 32.8°	-31.2° to -31.3°
	Identification	Infrared Absorption	Complies
	Loss on drying	≤ 0.3%	0.06 - 0.07%
	Residue on ignition	≤ 0.1%	0.04 -0.05%
	pH	5.5 - 7.0	5.8 - 6.0
Chemical	Heavy Metals	≤ 15 ppm	Complies
	Chloride	≤ 0.05%	Complies
	Sulfate	≤ 0.03%	Complies
	Iron	≤ 0.003%	Complies
Microbial	Total Plate Count	≤ 100 cfu/g	Complies
	Yeast & Mold	≤ 10 cfu/g	Complies
	Coliforms	Negative	Complies

Else	Storage condition	Sealed, kept in shady and dry place
	Shelf life	Two years

