

## CERTIFICATE OF ANALYSIS

PRODUCT NAME.	L-Tryptophan
BATCH NO.	25/MFM/3206
MOLECULAR WEIGHT:	204.23
CAS NUMBER:	73-22-3
EXPIRY DATE:	5 <sup>th</sup> July 2030
MOLECULAR FORMULA:	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>
STORAGE TEMP:	+ 20°C

TESTS	SPECS	RESULTS
Appearance	White to off-white powder	White powder
Assay :	98.5 – 101.5% (dried base)	99.23%
pH (1% solution)	5.5 – 7.0	5.96
Specific optical rotation	-29.4° - -32.8°	-30.9°
Chloride	<=0.05%	<= 0.02%
Sulphate	<=0.03%	<= 0.03%
Iron (Fe)	<= 30 ppm	<= 30 ppm
Arsenic (As)	<=1 ppm	Conforms
Heavy metals	<=15 ppm	Conforms
Mercury (Hg)	<= 0.1 ppm	Conforms
Lead (Pb)	<= 3 ppm	Conforms
Cadmium (Cd)	<= 1 ppm	Conforms
Loss on Drying	<=0.3% (105°, 3h)	0.05%
Residue on ignition	<=0.1%	0.05%
Pharmacopoeia Specification(s)	USP	Conforms to USP
Identification (IR)	To conform to standard	Conforms
Related Compound A	To pass test	Conforms
Organic Impurities	<= 0.01% of total impurities prior to peak and <= 0.03% of total impurities after peak	Conforms

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17<sup>th</sup> September 2025