



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	BIO-432
Lot Number	O170323
Product	L-Tryptophan
	L-Trp-OH
	(S)-2-Amino-3-(3-indolyl)propionic acid
CAS Number	73-22-3
Molecular Formula	C ₁₁ H ₁₂ N ₂ O ₂
Molecular Weight	204.2

Appearance	White crystalline powder
Heavy Metals	< 5 ppm (as Pb)
Arsenic (As₂O₂)	< 1 ppm
Anion	Chloride (Cl ⁻): < 0.020% Sulfate (SO ₄ ²⁻): < 0.020%
Cation	Ammonium (NH ₄): < 0.020% Iron (Fe): < 10 ppm
pH	6.0
Optical Rotation	[α] _D ²⁰ = - 32.1 ° [α] _D ²⁵ = - 31.8 °
Loss on Drying	0.06%
Residue On Ignition	0%
Assay (anhydrous basis)	100.2%
Storage	Store at RT
Additional Information	Identification: Pass Test State of Solution (T%): > 95%