



# INDOFINE Chemical Company, Inc.

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## *Certificate of Analysis*

Catalogue Number	BIO-432
Lot Number	001192-190512
Product	<b>L-Tryptophan</b>
	L-Trp-OH
CAS Number	73-22-3
Molecular Formula	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight	204.2

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Appearance	White crystals or crystalline powder
Heavy Metals	< 15 ppm
Anion	Chloride : < 0.05% Sulfate : < 0.03%
Cation	Iron : < 30 ppm
pH	6.2
Optical Rotation	[ $\alpha$ ] <sup>20</sup> <sub>D</sub> = -31.3 °
Infrared Spectrum	Conforms to structure
Loss on Drying	0.15%
Organic Volatile Impurities	Meet the requirement
Residue On Ignition	0.04%
Assay by titration	99.6% (on dry basis)
Grade	USP
Storage	Store at RT

Prepared by:  
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VP