

Chem-Impex International, Inc.

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Certificate of Analysis

Catalogue Number	33068
Product	L-Tryptophan , from non-animal origin
Lot Number	000531-211993
	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
Solubility	Clear colorless solution
Heavy Metals	< 5 ppm
Anion	Chloride : < 0.020%
	Sulfate : < 0.020%
Cation	Ammonium : < 0.005%
	Iron : < 10 ppm
	Arsenic : < 1 ppm
pH	6.2
Mould and Yeast	< 10 cfu/g
Optical Rotation	[a] ²⁰ _D = -31.6 °
	[a] ²⁵ _D = -31.3 °
Loss on Drying	0.01%
Residual Solvents	Methanol : 0.003%
E. Coli	Negative
Endotoxin Test	< 6.0 EU/g
Microbial Count	< 100 cfu/g (TAMC)
Related Substances	Any detectable impurity : < 0.03%
	Total impurities : < 0.03%
	Impurities before tryptophan : 90 ppm
	Impurities after tryptophan : 10 ppm
	Impurity A : Not detected
Residue On Ignition	0.03%
Assay	100% (On dry basis)
Grade	EP, JP, USP

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Storage

Store at RT

Additional Information

Identification : Passes test
State of solution : > 95%

Remarks

See material safety data sheet for additional information
For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager