

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-24 19:27:10

Date of Next Testing: 2028-12-23 19:27:10

Product Name: **L-Tryptophan**

CAS Number: 73-22-3

Specifications & Purity: Animal Free, USP, JP, Moligand™, Ph.Eur., for cell culture, ≥99%

Lot #: L2423540

SKU #: **T118579**

Version: **1**

Analysis #: **436565**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Ammonia (NH ₄)	0-0.02 (%)	0.00100 %
Chloride	0-0.02 (%)	0.01000 %
PH test(1% in water)	3-3.5	3.20000
(As)Arsenic	0-1 (ppm)	0.00000 ppm
Ignition Residue	0-0.1 (%)	0.00000 %
Iron(Fe)	0-20 (ppm)	1.32000 ppm
Sulfate(SO ₄ ²⁻)	0-0.02 (%)	0.00100 %
Endotoxin Assay	0-1 (EU/mg)	0.03340 EU/mg
Specific Rotation [α] ₂₀ /D(0.1g /10mL 1M HCl)EP and JP	-32.5--30.5 (°)	-30.50000 °
Specific Rotation [α] ₂₀ /D(c=1 H ₂ O)	-32.8--29.4 (°)	-30.63300 °
Heavy metals	0-10 (ppm)	0.00000 ppm
Loss on drying	0-0.1 (%)	0.00790 %
Assay(dry basis)	99-100.5 (%)	99.10000 %
Appearance (T118579)	white to yellow crystals,powder,crystalline powder	white to yellow crystals,powder,crystalline powder
Cell Culture Test	pass	Pass
Ninhydrin-positive substances (other amino acids)	Conforms	Conforms
Origin	non-animal source	non-animal source
Residual solvents	complies	complies
Solubility,Clear , 0.5 g to 20 mL of 2M HCl	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager