

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-05-30 11:49:10
 Date of Next Testing: 2029-05-29 11:49:10
 Product Name: **L-Tryptophan**
 CAS Number: 73-22-3
 Specifications & Purity: Animal Free, USP, JP, Moligand™, Ph.Eur., for cell culture, ≥99%
 Lot #: E2521615
 SKU #: **T118579**
 Version: **1**
 Analysis #: **502130**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Ammonia (NH ₄)	0-0.02 (%)	0.00125 %
Chloride	0-0.02 (%)	0.00990 %
PH test(1% in water)	3-3.5	3.25300
(As)Arsenic	0-1 (ppm)	0.00000 ppm
Iron(Fe)	0-20 (ppm)	0.02450 ppm
Heavy metals	0-10 (ppm)	0.00000 ppm
Sulfate(SO ₄ ²⁻)	0-0.02 (%)	0.00100 %
Specific Rotation [α] ₂₀ /D(0.1g/10mL 1M HCl)EP and JP	-32.5--30.5 (°)	-31.04800 °
Specific Rotation [α] ₂₀ /D(c=1 H ₂ O)	-32.8--29.4 (°)	-31.89500 °
Ignition Residue	0-0.1 (%)	0.00000 %
Endotoxin Assay	0-1 (EU/mg)	0.01250 EU/mg
Assay(dry basis)	99-100.5 (%)	100.45000 %
loss on drying(105°C,3 h)	0-0.3 (%)	0.23626 %
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



QualityAssurance@aladdinsci.com

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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

John Su
QA & QC Manager