

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2024-07-12 14:01:13
Date of Next Testing:	2028-07-11 14:01:13
Product Name:	L-Asparagine Monohydrate
CAS Number:	5794-13-8
Specifications & Purity:	non-animal source, for cell culture, ≥99.0%
Lot #:	G2403010
SKU #	A119452
Version	0
Analysis #:	150706
Storage Temperature:	Protected from light

Parameter	Limit Values	Result
Iron(Fe)	0-10 (ppm)	5.30 ppm
Ignition Residue(Ash)	0-0.1 (%)	0.03 %
Chloride	0-0.02 (%)	0.01 %
Sulfate(SO42-)	0-0.02 (%)	0.01 %
Ammonia (NH4)	0-0.1 (%)	0.00 %
Purity(HPLC)	99-100 (%)	99.36000 %
Loss on drying	11.5-12.5 (%)	11.96 %
Heavy metal (as Pb)	0-10 (ppm)	1.40 ppm
Specific Rotation [α] ₂₀ /D(c=10 in 6M HCl in dried basis)	33-36.5 (°)	33.02°
Endotoxin Assay	0-1 (EU/mg)	0.50 EU/mg
Ninhydrin-Positive Substances	Conforms	Conforms
Solubility in H ₂ O , Colorless,Clear,1g/50ml	pass	Pass
Appearance (A119452)	white crystalline powder	white crystalline powder
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager