

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-10-20 11:40:16
 Date of Next Testing: 2026-10-19 11:40:16
 Product Name: **L-Histidine**
 CAS Number: 71-00-1
 Specifications & Purity: EP,USP ,from non-animal source,for cell culture
 Lot #: J2215273
 SKU #: **H108261**
Analysis: 120131

Parameter	Limit Values	Result
PH test	7-8.5	7.60
Ammonia (NH ₄)	0-0.02 (%)	0.01 %
Assay	98.5-100 (%)	99.71 %
Specific Rotation [α] ₂₀ /D(c=11 in 6M HCl/EP)	12-12.8 (°)	12.79°
Loss on drying	0-0.2 (%)	0.12 %
Specific Rotation [α] ₂₅ /D(c=11 in 6M HCl/USP)	12.6-14 (°)	13.49°
(As)Arsenic	0-1 (ppm)	0.52 ppm
Sulfate(SO ₄ ²⁻)	0-0.02 (%)	0.01 %
Ignition Residue (as sulfate)	0-0.1 (%)	0.05 %
Heavy metal (as Pb)	0-10 (ppm)	5.00 ppm
Endonuclease Detection	0-0.1 (EU/g)	0.04 EU/g
Iron(Fe)	0-10 (ppm)	0.00 ppm
Chloride	0-0.02 (%)	0.02 %
Appearance (h108261)	White to Off-White Powder	White to Off-White Powder
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Ninhydrin-positive substances (other amino acids)	Conforms	Conforms
Origin	non-animal source	non-animal source
Residual solvents	complies	complies
Solubility in H ₂ O , Colorless solution 0.5G/10MLwater	pass	Pass



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

John Su
QA & QC Manager