

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2024-09-27 17:02:06
Date of Next Testing:	2028-09-26 17:02:06
Product Name:	L-Histidine
CAS Number:	71-00-1
Specifications & Purity:	Ultra pure, ≥99.5%
Lot #:	I2418291
SKU #	H108262
Version	1
Analysis #:	415505
Storage Temperature:	Protected from light

Parameter	Limit Values	Result
Barium(Ba)	0-5 (ppm)	0.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Purity(HPLC)	99.5-100 (%)	100.00000 %
Assay(Nonaqueous Titration)	99.5-100 (%)	99.87 %
Lithium(Li)	0-5 (ppm)	0.00 ppm
Lead(Pb)	0-5 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Specific Rotation [α] ₂₀ /D(c=2 in H ₂ O)	-40--38 (°)	-38.10 °
A ₂₆₀ UV Absorbance(0.1M,H ₂ O)	0-0.05	0.04
Ignition Residue (as sulfate)	0-0.1 (%)	0.00 %
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Aluminum(Al)	0-5 (ppm)	0.00 ppm
Ammonia (NH ₄)	0-500 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	0.00 ppm
foreign amino acids	0-0.5 (%)	0.41 %
Sulfate(SO ₄ ²⁻)	0-100 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Chloride (Cl ⁻)	0-100 (ppm)	40.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	2.00 ppm
Sodium(Na)	0-50 (ppm)	19.00 ppm
loss on drying, 110 °C	0-0.5 (%)	0.04 %
Bismuth(Bi)	0-5 (ppm)	0.00 ppm

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Parameter	Limit Values	Result
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
PH(25 °C, 0.1 M in Water)	7-8 (%)	7.53 %
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.00 ppm
(As)Arsenic	0-0.1 (ppm)	0.00 ppm
Appearance (H108262)	White to Off-White Solid, Powder, or Crystals	White to Off-White Solid, Powder, or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
Solubility in H ₂ O,soluble,0.1M,20°C,clear,colorless	Pass	Pass

John Su
QA & QC Manager