

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-11 14:58:08
 Date of Next Testing: 2027-01-10 14:58:08
 Product Name: **L-Histidine monohydrate monohydrochloride**
 CAS Number: 5934-29-2
 Specifications & Purity: Ultra pure, Moligand™, ≥99.5%(AT)
 Lot #: A2309618
 SKU #: **H106212**
 Version: **1**
 Analysis #: **154977**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Iron(Fe)	0-10 (ppm)	2.33000 ppm
Nickel(Ni)	0-5 (ppm)	1.23000 ppm
Potassium(K)	0-50 (ppm)	15.30000 ppm
Zinc(Zn)	0-5 (ppm)	2.70000 ppm
UV Absorbance 280nm	0-0.05 (nm)	0.00000 nm
Purity (Argentometric Titration)	99.5-100 (%)	99.80000 %
Cadmium(Cd)	0-5 (ppm)	3.10000 ppm
Specific Rotation [α] ₂₀ /D(c=5 in 5 M HCl)	9-10 (°)	9.20000 °
Sodium(Na)	0-50 (ppm)	17.90000 ppm
Ammonia (NH ₄)	0-500 (ppm)	200.00000 ppm
Aluminum(Al)	0-5 (ppm)	2.60000 ppm
Manganese(Mn)	0-5	3.00000
Ignition Residue (as sulfate)	0-0.1 (%)	0.03000 %
Loss on drying	0-0.2 (%)	0.05000 %
(As)Arsenic	<1 (ppm)	0.30000 ppm
Magnesium(Mg)	0-5 (ppm)	0.40000 ppm
Lithium(Li)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00000 ppm
Chloride Content	16.7-17.1 (%)	16.80000 %
Chromium(Cr)	0-10 (ppm)	5.60000 ppm
Strontium(Sr)	0-5 (ppm)	2.40000 ppm
Molybdenum(Mo)	0-5 (ppm)	2.60000 ppm
Bismuth(Bi)	0-5 (ppm)	3.10000 ppm
pH	3-4	3.50000
(Pb)Lead	<10 (ppm)	5.80000 ppm

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Parameter	Limit Values	Result
Cobalt(Co)	0-5 (ppm)	3.30000 ppm
UV Absorbance 260nm	0-0.05 (nm)	0.00000 nm
Copper(Cu)	0-5 (ppm)	2.00000 ppm
Sulfate(SO42-)	< 0.02 (%)	0.01000 %
Appearance (H106212)	White crystals or crystalline powder	White crystals or crystalline powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H2O , soluble , 1M , 20°C, clear, colorless	pass	Pass
λ ,0.5 M in H2O	Pass	Pass

John Su
QA & QC Manager