

Certificate of Analysis

Date of Testing: 2023-07-31 16:08:44
 Date of Next Testing: 2027-07-30 16:08:44
 Product Name: **L-Histidine**
 CAS Number: 71-00-1
 Specifications & Purity: Ultra pure, ≥99.5%
 Lot #: G2322463
 SKU #: **H108262**
Analysis: 257947

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 (%)	99.65300 %
Assay(Nonaqueous Titration)	99.5-100 (%)	99.94 %
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 (°)	-38.35 °
A ₂₆₀ UV Absorbance(0.1M,H ₂ O)	0-0.05	0.04
Ignition Residue (as sulfate)	0-0.1 (%)	0.04 %
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 (%)	0.34 %
Sulfate(SO ₄ ²⁻)	0-100 (ppm)	2.38 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Chloride (Cl ⁻)	0-100 (ppm)	1.08 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
Sodium(Na)	0-50 (ppm)	0.12 ppm
loss on drying, 110 °C	0-0.5 (%)	0.00 %
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm

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Parameter	Limit Values	Result
PH(25 °C, 0.1 M in Water)	7-8 (%)	7.68 %
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