

Certificate of Analysis

Date of Testing: 2025-03-26 10:39:03

Date of Next Testing: 2028-03-25 10:39:03

Product Name: **L-Histidine**

CAS Number: 71-00-1

Specifications & Purity: UltraBio™, ≥99.5%(NT)

Lot #: C2520300

SKU #: **L755708**

Version: **1**

Analysis #: **488047**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Assay(NonaqueousTitration)	99.5-100 (%)	99.80 %
Specific Rotation [α] ₂₀ /D(c=2% in H ₂ O)	-40~-38 (°)	-40.00000 °
Loss on drying(110°C)	0-0.5 (%)	0.00 %
Ignition residue(as SO ₄)	0-0.1 (%)	0.00000 %
pH(25 °C,0.1 M in H ₂ O)	7.0-8.0	7.73000
UV Absorbance 260nm(0.1 M in H ₂ O)	0-0.05	0.02000
UV Absorbance 280nm(0.1 M in H ₂ O)	0-0.05	0.03
Aluminum(Al)	0-5 (ppm)	0.00 ppm
Arsenic(As)	0-0.1 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
Lithium(Li)	0-5 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
NH ₄ ⁺	0-500 (ppm)	500.00000 ppm
Sodium(Na)	0-50 (ppm)	16.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm

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Parameter	Limit Values	Result
Lead(Pb)	0-5 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Chloride (Cl-)	0-100 (ppm)	33.00 ppm
Sulfate(SO42-)	0-100 (ppm)	0.00 ppm
Appearance(L755708)	White powder or crystals	White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility(20°C 0.1 M in H2O,clear,colorless)	Conforms	Conforms

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager