

Certificate of Analysis

Product Name: **L-Histidine HCL**
 CAS #: **5934-29-2**
 Starting Material: **Feathers**
 Solvents: **None**
 Carriers: **None**
 Country of Origin: **China**
 Batch Number: **Varies**
 Manufacture Date: **Varies**
 Retest Date: **Varies**

Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
L-Histidine (HPLC)	≥98.5%	99.09%
Aerobic Plate Count	≤1000 cfu/g	<20 cfu/g
Coliforms	≤100 cfu/g	<20 cfu/g
<i>E. Coli</i>	Negative	Absent
<i>Staph aureus</i>	Negative	Absent
Yeast & Mold	≤100 cfu/g	<20 cfu/g
<i>Salmonella</i>	Negative	Absent
<i>Pseudo. aeruginosa</i>	Negative	Absent
Conclusion (PureBulk):	This product conforms to standards	

The following information is an indirect translation of information provided from the Manufacturer's Certificate of Analysis, and should not be used solely as an instrument for strict quality control.

ITEMS	SPECIFICATIONS	RESULTS
Identification	Conforms (As per EP6)	Conforms
Appearance	A white or almost white crystalline powder or colorless crystals.	Conforms
Appearance of solution	Clear and not more intensely colored than reference solution BY ₆ .	Conforms
Solubility	Freely soluble in water, slightly soluble in alcohol.	Conforms
Specific Optical Rotation	+9.2° to +10.6°	+9.4°
Ninhydrin-positive substances	Conforms (As per EP6)	Conforms
Sulfates	≤300 ppm	<300 ppm
Ammonium (NH ₄)	≤200 ppm	<200 ppm
Iron (Fe)	≤10 ppm	<10 ppm
Heavy Metals	≤10 ppm	<10 ppm
Lead (Pb)	≤0.5 ppm	<0.5 ppm
Mercury (Hg)	≤0.1 ppm	<0.1 ppm
Cadmium (Cd)	≤1 ppm	<1 ppm
Arsenic (As)	≤1 ppm	<1 ppm
Loss on drying	7% to 10%	8.6%
Sulphated Ash	≤0.1%	<0.1%
pH	3.0 to 5.0	3.8
Particle Size	95% pass 20 mesh	Conforms
Bulk Density	Only Report	0.736 g/ml
Tapped Density	Only Report	0.931 g/ml
Conclusion (Manufacturer):	This product conforms to EP6 standards	

Additional Information: Allergen Free || BSE/TSE Free || Gluten Free || Vegetarian

GMO Statement: Non-GMO

Storage Conditions: **Keep in sealed container under 25°C.**
Keep away from strong light, heat and moisture.

Purebulk.Inc verifies that the information contained herein is true and correct to the best of our knowledge.

Verified By: Nicole Rammage / Candace Gibson

(This document was produced electronically and is valid without signature.)