

Certificate of Analysis

Product Name: **L-Arginine HCL (Vegan)**
 CAS#: **1119-34-2**
 Starting Material: **L-Arginine**
 Carrier: **None**
 Country of Origin: **China**
 Batch Number: **Varies**
 Manufacture Date: **Varies**
 Retest Date: **Varies**

Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
L-Arginine HCL (Titration) (USP)	98.5-101.5%	99.38%
Identification (FT/IR) (USP)	Positive	Confirmed, IR Scan Match
Aerobic Plate Count	≤1000 cfu/g	<10 cfu/g
Yeast & Mold	≤100 cfu/g	<10 cfu/g
Coliforms	≤100 cfu/g	<10 cfu/g
<i>E. Coli</i>	Negative	Absent
<i>Salmonella</i>	Negative	Absent
<i>Staph aureus</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
Appearance	White Crystals or Crystalline Powder	Conforms
Specific Rotation [α] D20	+21.4° - +23.6°	+22.2°
Loss on Drying	≤0.20%	0.12%
Residue on ignition	≤0.10%	0.05%
Chloride (Cl)	16.5%-17.1%	16.8%
Sulfate (SO4)	≤0.03%	Conforms
Heavy Metals	≤10 ppm	Conforms
Chromatographic Purity	Meet the Requirement	Conforms
Organic Volatile Impurity	Meet the Requirement	Conforms
Conclusion (Manufacturer):	This product conforms to USP32 standards	

Additional Information: Gluten Free || BSE/TSE Free || Melamine Free || Vegan / Vegetarian ||
 Non-Allergen || No Pesticides || GRAS || Prop 65 Compliance
Sterilization Method: Non-EtO || Non-Irradiation
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: Linda Heatley / Candace Gibson

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