

Certificate of Analysis

Product Name:	L-Citrulline
Starting Material:	L-Arginine (Non-GMO Corn)
Residual Solvents:	None
Country of Origin:	China
Batch Number:	Varies
Manufacture Date:	Varies
Retest Date:	Varies

Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
L-Citrulline (HPLC)	≥98.5%	99.98%
Aerobic Plate Count	≤1000 cfu/g	60 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
Appearance	White crystal or crystalline powder, slightly sweet taste, no black spots and foreign matters	White crystalline powder
Transmittance	≥98.0%	98.7%
Specific Rotation	+24.5° ~ +26.8°	+25.8°
pH	5.0 ~ 7.0	5.72
Loss on Drying	≤0.30%	0.16%
Residue on Ignition	≤0.10%	0.03%
Chloride (Cl)	≤0.02%	<0.02%
Sulfate (SO ₄)	≤0.02%	<0.02%
Ammonium (NH ₄)	≤0.02%	<0.02%
Iron (Fe)	≤10 ppm	<10 ppm
Heavy Metals	≤10 ppm	<10 ppm
Arsenic (As)	≤1 ppm	<1 ppm
Lead (Pb)	≤0.5 ppm	<0.5 ppm
Mercury (Hg)	≤0.1 ppm	<0.1 ppm
Cadmium (Cd)	≤1 ppm	<1 ppm
Conclusion (Manufacturer):	This product conforms to USP41 standards	

Additional Information:	Allergen Free BSE/TSE Free Gluten-Free Vegan
GMO Statement:	Non-GMO
Composition:	98.5% - 101% L-Citrulline Contains no excipients or carriers
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: Candace Gibson

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