

## Certificate of Analysis

Product Name: **L-Arginine Alpha Ketoglutarate 2:1**  
 Country of Origin: **China**  
 Batch Number: **Varies**  
 Manufacture Date: **Varies**  
 Retest Date: **Varies**

## Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
Alpha Ketoglutarate (AKG) (HPLC)	26.5-29%	28.93% as is
Arginine (HPLC)	65.5-69%	66.78% as is basis
Arginine AAKG (Calculated)	≥89%	95.71% as is
Aerobic Plate Count	≤1000 cfu/g	<10 cfu/g
Coliforms	≤100 cfu/g	<10 cfu/g
<i>E. Coli</i>	Negative	Absent
<i>Staph aureus</i>	Negative	Absent
Yeast & Mold	≤100 cfu/g	<10 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 to yellow crystalline powder	White to yellow crystalline powder
Specific Rotation	+16.5 ~ +18.5	18.1
pH	5.5-7.0	6.0
Hydrate	≤6.8	6.2
Chloride (Cl)	≤0.05%	0.03%
Loss on Drying	≤1.0%	0.24%
Residue on Ignition	≤0.2%	0.10%
Heavy Metals	≤10 ppm	<10 ppm
As	≤1 ppm	<1 ppm
Pb	≤1 ppm	<1 ppm
Cd	≤1 ppm	<1 ppm
Hg	≤1 ppm	<1 ppm
Iron (Fe)	≤10 ppm	<10 ppm
Bulk Density	≥0.5 g/ml	0.53 g/ml
Particle Size	Thus 30	100%
Melamine and Melamine Derivatives	Free	Free
Conclusion (Manufacturer):	This product conforms to enterprise standards	

**Additional Information:** Vegan || Allergen Free || BSE/TSE Free || Gluten Free

**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: Candace Gibson / Nicole Rammage*

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