

Certificate of Analysis

Product Name: **R-Alpha Lipoic Acid**
 Country of Origin: **China**
 Batch Number: **Varies**
 Manufacture Date: **Varies**
 Retest Date: **Varies**

Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
Alpha-Lipoic Acid (HPLC)	≥98%	98.72%
Aerobic Plate Count	≤1000 cfu/g	Not Detected
Coliforms	≤100 cfu/g	Not Detected
<i>E. Coli</i>	<20 cfu/g	Absent
<i>Staph aureus</i>	<20 cfu/g	Absent
Yeast & Mold	≤100 cfu/g	Not Detected
<i>Salmonella</i>	<20 cfu/g	Absent
<i>Pseudo. aeruginosa</i>	<20 cfu/g	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
Description	A pale yellow crystal	Conforms
Odor	Characteristic	Conforms
Taste	Characteristic	Conforms
Identification	Meets the requirements	Conforms
Melting Point	48-51°C	48.3-50.4°C
Specific Optical Rotation	+110° ~ +120°	+118.8°
Loss on Drying	≤0.5%	0.1%
Residue on Ignition	≤0.1%	0.03%
Cyclohexane	≤0.388%	0.075%
Heavy Metals	≤10 ppm	<10 ppm
As	≤2 ppm	Conforms
Lead (Pb)	≤3 ppm	Conforms
Cadmium (Cd)	≤1 ppm	Conforms
Mercury (Hg)	≤0.1 ppm	Conforms
Particle Size	100% through 40 mesh	Conforms
Loose Bulk Density	0.25~0.35 g/ml	0.29 g/ml
Assay	≥99%	99.2%
Conclusion (Manufacturer):	This product conforms to enterprise standards	

Additional Statements: Non-Allergen || vegan || BSE-TSE Free || Sugar free || Gluten-Free

GMO Statement: Non-GMO

Composition: 99%-101% of R-ALA

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 / Linda Heatley / Nicole Rammage

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