



Certificate of Analysis

Product Name:	RS-ALA (Alpha Lipoic Acid)
Molecular Weight:	206.33
Molecular Formula:	C₈H₁₄O₂S₂
Starting Material:	Hexanedioic acid
Carrier:	None
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)	99-101.0%	99.84%
Aerobic Plate Count	≤1000 cfu/g	<20 cfu/g
Coliforms	≤100 cfu/g	<20 cfu/g
<i>E. Coli</i>	Absence/g	Absent
<i>Staph aureus</i>	Absence/g	Absent
Yeast & Mold	≤100 cfu/g	<20 cfu/g
<i>Salmonella</i>	Absence/g	Absent
<i>Pseudo. aeruginosa</i>	Absence/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
Appearance	Slightly yellow crystal powder	Conforms
Identification	Meets the requirements	Conforms
Melting Point	60.0~ 62.0°C	61.8°C
Specific rotation	-1.0° to +1.0°	0°
Loss on drying	≤0.20%	0.04%
Residue on Ignition	≤0.10%	0.02%
Heavy Metals	≤10 ppm	<10 ppm
Lead	≤3 ppm	<3 ppm
Cadmium (Cd)	≤1 ppm	<1ppm
Mercury (Hg)	≤0.1 ppm	<0.1 ppm
Single Impurity	≤0.10%	0.01%
Total Impurities	≤2.0%	0.02%
Limit of polymer content	Conforms	Conforms
Cyclohexane	≤3880 ppm	910 ppm
Ethyl Acetate	≤500 ppm	80 ppm
Toluene	≤20 ppm	Not Detectable
Particle Size	100% through 40 mesh	Conforms
Loose Bulk Density	Report Only	0.36 g/ml
Solubility	1 g/L (20°C) in water	Conforms
Conclusion (Manufacturer):	This product conforms to USP43 standards	

Additional Information:	Non-BSE/TSE Vegan Non-Allergen
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: Ann Foote / Candace Gibson / Nicole Rammage

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