

Certificate of Analysis

Product Name:	L-Malic Acid
CAS #:	97-67-6
Starting Material(s):	Fumaric acid, Calcium Carbonate
Starting Material Source:	Petroleum, Mineral
Extraction Solvent(s):	None
Carrier:	None
Country of Origin:	China
Batch Number:	Varies
Manufacture Date:	Varies
Retest Date:	Varies

Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
L-Malic Acid (HPLC)	≥99%	99.28%
Aerobic Plate Count	≤1000 cfu/g	<20 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	Colorless crystals, crystal or crystalline powder	Conforms
Bulk Density	0.58-0.65 g/ml	0.63 g/ml
Chloride (Cl)	≤0.004%	Conforms
Color	White	Conforms
Identification	Titration: Positive	Conforms
Melting Point	~101°C	Conforms
Particle/Mesh Size	70-80 mesh: ≥98%	Conforms
Residue on Ignition	≤0.10%	0.04%
Specific Rotation	-1.6 ~ -2.6°	-2.16°
State of Solution	Clear	Conforms
Sulfate (SO ₄)	≤0.02%	Conforms
Water Insolubles	≤0.01%	Conforms
Arsenic (As)	≤2 ppm	Conforms
Heavy Metals	≤10 ppm	Conforms
Lead (Pb)	≤2 ppm	<1 ppm
Solubility	Soluble Water: 300g in 100ml @ 30°C	Conforms
Conclusion (Manufacturer):	This product conforms to GB1886-40-2015 standards	

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

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

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