

CHEMICALSTORE.COM

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CERTIFICATE OF ANALYSIS

PRODUCT **DL-MALIC ACID, FCC**
LOT No. N6C844
MFG DATE: January 17, 2022
RE-TEST: Every two years
COUNTRY OF ORIGIN CHINA

<u>TEST ITEMS</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Identification by IR	Positive for Malic Acid	Positive
Assay	99.0 – 100.5%	99.3%
Maleic Acid	0.05% max	≤ 0.01%
Fumaric Acid	1.00% max	≤ 0.64%
Residue on Ignition	0.10% max	≤ 0.10%
Heavy metals total	10 ppm Max	< 10 ppm
Lead (Pb)	2 ppm max	≤ 2 ppm
Arsenic (As)	2 ppm max	< 2ppm
Mercury	1 ppm max	< 1 ppm
Water Insoluble Matter	0.10% max	≤ 0.006%
Specific Rotation	-0.10° to +0.10°	Passes
Melting Range	127 – 132° C	120°C
Sulfated Ash	0.10% max	0.06%
Particle Size		
On 25 Mesh (710 µm)	1.0% max	0.55%
On 100 Mesh (150 µm)	5.0% max	4.70%

This material conforms to FCC 9 & European Food Additive 296

The specification and test results are mainly from the original Manufacturer's/Supplier's Certificate of Analysis. This product may be repackaged for safety, export or small quantity sales.

Chemical Store Inc.
Quality Control and Compliance
Mohammad Hamzeh