



Malic. Fumaric. Dynamic.

Chemical Store
Lot # Q7C1058

CERTIFICATE OF ANALYSIS

MALIC ACID REGULAR, FOOD GRADE - FCC and EU 231/2012

Customer:

Customer Order No.:

Material Code: 105888

Bartek Invoice Number: S-ORD110786

Date(s) of Production: 2026-04-16

Expiration Date(s): 2028-04-16

Lot Number: 16/26

Unit Tested: R.057251

TEST PERFORMED

SPECIFICATION

RESULTS

Appearance	White or nearly white crystalline powder or granules	Passes
Assay	99.0 - 100.5%	99.6%
Water-Insoluble Matter	0.1% max.	≤ 0.1%
Identification by IR	Positive for Malic Acid	Passes test
Identification (test for malate)	Passes test	Passes test
Melting Range	127 - 132 °C	Conforms
Specific Rotation	-0.10° to +0.10°	Conforms
Residue on Ignition (Sulfated Ash)	0.1% max.	≤ 0.1%
Fumaric Acid	1.0% max.	≤ 1.0%
Maleic Acid	0.05% max.	≤ 0.05%
Arsenic	3 mg/kg max.	≤ 3 mg/kg
Lead	2 mg/kg max.	≤ 2 mg/kg
Mercury	1 mg/kg max.	≤ 1 mg/kg
Moisture	0.5% max.	≤ 0.5%
Particle Size:		
On US #25 mesh (710 micron)	1.0% max.	0.0%
Through US #100 mesh (150 micron)	5.0% max.	2.2%

NOT FOR PHARMACEUTICAL USE

Ian Burling
Plant Chemist



Bartek Ingredients
Quality Control

Date: 2026-04-21