

CERTIFICATE OF ANALYSIS

Product Description	DL-MALIC ACID HYDROXYBUTANEDIOIC ACID, HYDROXY, (±)-2- HYDROXYSUCCINIC ACID
Product Number	M5536
Lot Number	HEW5536003
Storage Temperature	Room Temperature
Molecular Weight	134.09
Formula	C ₄ H ₆ O ₅
CAS Number	6915-15-7

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/ml	Passes
pH	Under Development	2.2
Physical Appearance Color* Texture	PM-1 to PM-4, PM-13, or PM-19 Crystalline Powder	PM-1 White Crystalline Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	For Information Only (Approx. 5 min)	Passes
Insolubles	None	Passes
Purity	Minimum 99%	99.82%

* Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color Preview™).

Biological Testing:

Test Concentration: 50.0 mg/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultured lines with no morphological aberrations to plants.	Parrot Feather	Passes
	H38 Tobacco Callus	Passes

The material described in this certificate is synthetic. No animal-derived components were used in the manufacture of this product.

PhytoTech Labs Inc. provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTech Labs Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Date of Release: 30-October-2023

Recommended Shelf-Life Date: October 2031



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