CERTIFICATE OF ANALYSIS

Product Description	FOLIC ACID, USP GRADE
Product Number	F430
Lot Number	11E0430005
Storage Temperature	Room Temp.
Molecular Weight	441.45
Formula	$C_{19}H_{19}N_7O_6$
CAS Number	59-30-3

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in 1N KOH @ 1 mg/mL	Passes
Physical Appearance Color* Texture	 2018-10 to 2022-10, 2018-20 to 2022-20, or 2018-30 to 2022-30, Fine Powder; May have clumps	 2021-20 Dark Yellow Fine Powder with clumps
Solution Appearance Clarity Color	 Clear Colorless to Slight Yellow Tint	 Clear Slight Yellow Tint
Average Time to Dissolve	Within 1 min	Passes
Insolubles	None	Passes
Purity	Minimum 95.0%	96.5%
Water Content	For Information Only	7.7%

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

Biological Testing:

Test Concentration: 0.5 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	Tobacco callus	Passes
	Syngonium	Passes

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

***Phyto*Technology Laboratories® provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. *Phyto*Technology Laboratories® 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.**

Recommended Shelf Life Date: May 2019

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