

CERTIFICATE OF ANALYSIS

Product Description FOLIC ACID, USP GRADE
Product Number F430
Lot Number 02D43004
Storage Temperature Room Temp. Formula C₁₉H₁₉N₇O₆
Molecular Weight 441.45 CAS Number 59-30-3

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in 1N KOH @ 1.0 mg/mL	Passes
Physical Appearance		
Color*	2018-10 to 2022-10, 2018-20 to 2022-20, or 2018-30 to 2022-30,	2019-30 Orange
Texture	Fine Powder; May have clumps	Fine Powder with clumps
Solution Appearance	Clear, Light Yellow Tint	Passes
Average Time to Dissolve	Within 1 min	Passes
Insolubles	None	Passes
Purity	97.0%- 102.0%	97.6%
Identification (Ratio A ₂₅₆ /A ₃₆₅)	2.80- 3.00	2.88
Water Content	Maximum 8.5%	8.11%
Residue on Ignition	Maximum 0.3%	0.03%
Organic Volatile Impurities	Meets Requirements	Passes
Impurities by Chromatography	Maximum 2.0%	Passes

* 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	Boston Fern	Passes
	Torenia	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, LLC 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: June 2011



Gary Seckinger, Ph.D.



PhytoTechnology
Laboratories, LLC
Dedicated to Growth

PhytoTechnology Laboratories, LLC

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