CERTIFICATE OF ANALYSIS

Product Description	L-ASPARAGINE, MONOHYDRATE (S)-2,4-DIAMINO-4-OXOBUTANOIC ACID
Product Number	A107
Lot Number	11J0107006
Storage Temperature	Room Temperature
Molecular Weight	150.1
Formula	$C_4H_8N_2O_3 \bullet H_2O$
CAS Number	5794-13-8

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	4.13
Physical Appearance Color* Texture	 RM-1 to RM-3, or RM-31 Crystalline Powder	 RM-31 White Crystalline Powder
Solution Appearance Clarity Color	 Clear Colorless	 Clear Colorless
Average Time to Dissolve	Within 15 min	Passes
Insolubles	None	Passes
Purity	Minimum 99.0%	99.75%

* 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	Syngonium	Passes
	Kalanchoe	Passes

The material described in this certificate is synthetic. No animal-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: September 2019

Gary Seckinger, Ph.D.

P*hyto*Technology Laboratories®
Dedicated to Growth

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