## **CERTIFICATE OF ANALYSIS**

Product Description	L-GLUTAMIC ACID (S)-2-AMINOPENTANEDIOIC ACID	
Product Number	G399	
Lot Number	13J0399002	
Storage Temperature	Room Temperature	
Molecular Weight	147.13	
Formula	$C_5H_9NO_4$	
CAS Number	56-86-0	

## **Physiochemical Specifications:**

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	3.4
Physical Appearance		
Color*	RM-1 to RM-3, or RM-31	RM-31 White
Texture	Crystalline Powder	Crystalline Powder
Solution Appearance		
Clarity	Clear	Clear
Color	Colorless	Colorless
Average Time to Dissolve	Within 15 min	Passes
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	Minimum 98.0%	99.40%

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

## **Biological Testing:**

Test Concentration: 100 mg/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or more	Kalanchoe	Passes
plant tissue cultured lines with no morphological aberrations to plants	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: September 2021

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