

# CERTIFICATE OF ANALYSIS

Product Description L-LEUCINE  
Product Number L574  
Lot Number 00M57402  
Storage Temperature Room Temperature  
Molecular Weight 131.2  
Formula  $C_6H_{13}NO_2$   
CAS Number 61-90-5

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water	Passes
pH (0.050 g/L)	Under Development	6.0
Physical Appearance Color* Texture	RM-1 to RM-3, RM-31 Flaky to Crystalline Powder	RM-31 White Flaky Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 3 min	Passes
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	Minimum 98%	100%
Moisture by Karl Fischer	For Information Only	0.1%

\* 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	African Violet	Passes
	Lily	Passes

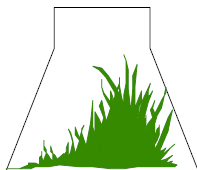
The material described in this certificate was manufactured in the United State of America and is either synthetic or plant derived in nature. No animal components were used in the manufacture of this product.

**PhytoTechnology 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. PhytoTechnology 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 2018



Gary Seckinger, Ph.D.



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### **PhytoTechnology Laboratories®**

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