

# CERTIFICATE OF ANALYSIS

Product Description L-TYROSINE, FREE BASE  
Product Number T873  
Lot Number 08L87304  
Storage Temperature Room Temperature  
Molecular Weight 181.21  
Formula  $C_9H_{11}NO_3$   
CAS Number 60-18-4

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in 1.0 N HCl @ 10 mg/mL	Passes
Physical Appearance Color* Texture	RM-1 to RM-3 or RM-31 Fine Powder, may form clumps	RM-31 White Fine Powder, with clumps
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 4 min	Passes
Insolubles	None	Passes
Purity	Minimum 98.5%	99.3%
Loss on Drying	For Information Only	0.11%
FTIR	Conforms to Structure	Passes
Heavy Metals	For Information Only	$\leq 0.0015\%$

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

## 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 plant tissue cultured lines with no morphological aberrations to plants	Achimenes	Passes
	Syngonium	Passes

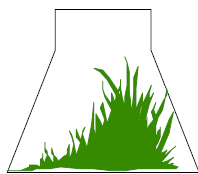
The material described in this certificate was manufactured from human hair. No plant-derived components were used in the manufacture of this product.

**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: April 2018



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