

# CERTIFICATE OF ANALYSIS

Product Description	L-PROLINE
Product Number	P698
Lot Number	ARR0698021
Storage Temperature	Room Temperature
Molecular Weight	115.13
Formula	C <sub>5</sub> H <sub>9</sub> NO <sub>2</sub>
CAS Number	147-85-3

## **Physiochemical Specifications:**

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	7.3
Physical Appearance Color* Texture	PM-1 to PM-4 Fine to Coarse Crystalline Powder	PM-4 White Crystalline Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 1 min	< 1 min
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	Minimum 98.5%	99.40%
Moisture (LOD)	For Information Only	0.08%

\* 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 cultures with no morphological aberrations to plants	Sugar Cane	Passes
	African Violet	Passes

The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

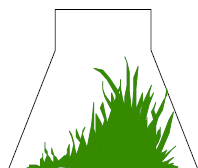
**PhytoTechnology Laboratories® provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTechnology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. 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.**

Date of Release: 3-December 2018

Recommended Shelf Life Date: December 2026



David S. Hart  
Technical Director



PhytoTechnology  
Laboratories®  
Dedicated to Growth

### **PhytoTechnology Laboratories®**

Mailing Address: P.O. Box 12205, Shawnee Mission, KS 66282-2205  
Phone: 1-888-749-8682 (1-913-341-5343 *Outside the USA & Canada*)  
Fax: 1-888-449-8682 (1-913-341-5442 *Outside the USA & Canada*)  
Visit our Web Site at <http://www.phytotechlab.com>