

# CERTIFICATE OF ANALYSIS

Product Description	L-PROLINE
Product Number	P698
Lot Number	HCW0698027
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	5.8
Physical Appearance Color* Texture	PM-1 to PM-4 Fine to Coarse Crystalline Powder	PM-4 White Coarse Crystalline Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 1 min	Passes
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	Minimum 98.5%	100.00%

\* 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	Xanthi Tobacco Callus	Passes
	Perilla Fantasy	Passes

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

**PhytoTech Labs Inc. provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTech Labs Inc. 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.**

Product Release Date: 08-March-2023

Recommended Shelf Life Date: March 2031



David Hart  
Technical Director

**PhytoTech Labs Inc.**  
14610 W 106<sup>TH</sup> St. Lenexa, KS 66215  
Phone: 1-888-749-8682 or 1-913-341-5343  
Fax: 1-888-449-8682 or 1-913-341-5442  
Phytotechlab.com