

CERTIFICATE OF ANALYSIS

Product Description L-ARGININE, FREE BASE
(S)-2-AMINO-5-[(AMINOIMINOMETHYL)AMINO]PENTANOIC ACID
Product Number A143
Lot Number 06K14304
Storage Temperature Room Temperature
Molecular Weight 174.20
Formula $C_6H_{14}N_4O_2$
CAS Number 74-79-3

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water	Passes
pH (0.10 g)	Under Development	10.0
Physical Appearance Color* Texture	PM-1 to PM-4 Fine or Granular Powder or Crystals	PM-4 White Fine 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 98.0%	99.6%
Heavy Metals (as Pb)	For Information Only	Less than 10 ppm

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

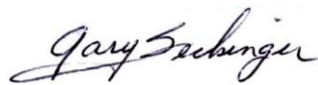
Biological Testing:

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	Lily	Passes
	Hosta	Passes

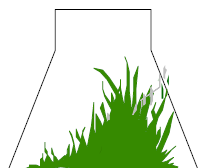
The material described in this certificate was manufactured from duck feathers.

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.

Recommended Shelf Life Date: March 2019



Gary Seckinger, Ph.D.



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