

CERTIFICATE OF ANALYSIS

Product Description	L-ASPARAGINE, MONOHYDRATE (S)-2,4-DIAMINO-4-OXOBUTANOIC ACID
Product Number	A107
Lot Number	07E10704
Storage Temperature	Room Temperature
Molecular Weight	150.1
Formula	C ₄ H ₈ N ₂ O ₃ •H ₂ O
CAS Number	5794-13-8

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water	Passes
pH (0.050 g/L)	Under Development	5.31
Physical Appearance Color*	RM-31 (Brilliant White) RM-1 to RM-3	RM-3 (Decorators White)
Texture	Crystalline Powder	Crystalline Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 15 min	Passes
Precipitation Formation	None	Passes
Assay	Minimum 99.0%	99.12%

* 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 culture lines with no morphological aberrations to plants	Syngonium	Passes
	Kalanchoë	Passes

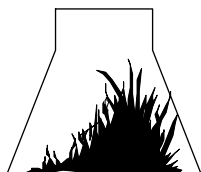
The material described in this certificate was manufactured in the United States of America and is synthetic in nature. No animal-derived components were used in the manufacture of this product.

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: May 2012



Gary Seckinger, Ph.D.



PhytoTechnology
Laboratories, LLC
Dedicated to Growth

PhytoTechnology Laboratories, LLC

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

Created on 6/14/2007
Revised on 1/23/2008