

CERTIFICATE OF ANALYSIS

Product Description L-ASPARAGINE, MONOHYDRATE
(S)-2,4-DIAMINO-4-OXOBUTANOIC ACID
Product Number A107
Lot Number 10D0107005
Storage Temperature Room Temperature
Molecular Weight 150.1
Formula $C_4H_8N_2O_3 \cdot H_2O$
CAS Number 5794-13-8

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	4.30
Physical Appearance Color* Texture	RM-1 to RM-3, or RM-31 Crystalline Powder	RM-31 White Crystalline Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 15 min	Passes
Insolubles	None	Passes
Purity	Minimum 99.0%	99.5%
Moisture (Loss on Drying)	For Information Only	11.9%

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

Biological Testing:

Test Concentration: 50.0 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	Kalanchoe	Passes
	Hosta	Passes

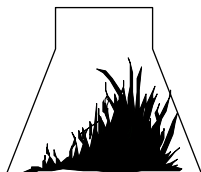
The material described in this certificate is synthetic. No animal-derived components were used in the manufacture of this product.

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.

Recommended Shelf Life Date: April 2018



Gary Seckinger, Ph.D.



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