

CERTIFICATE OF ANALYSIS

Product Description AMMONIUM CITRATE, DIBASIC
Product Number A114
Lot Number 02G11402
Storage Temperature Room Temperature
Molecular Weight 226.19
Formula $(\text{NH}_4)_2\text{HC}_6\text{H}_5\text{O}_7$
CAS Number 3012-65-5

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water	Soluble in Water
pH (0.10 g/L)	Under Development	4.73
Physical Appearance Color*	RM-3 (Decorators White) RM-1 to RM-3 or RM-31	RM-3 (Decorators White)
Texture	Crystals to Crystalline Powder	Crystals
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 1 min	Within 1 min
Precipitation Formation	None	None
Assay	>98.0%	99.4%
Heavy Metals	0.0005%	<0.0005%

* 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 cultures	Boston Fern	Passes—supported plant growth and/or shoot proliferation with no morphological aberrations to plants
	Hosta	Passes—supported plant growth and/or shoot proliferation with no morphological aberrations to plants

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

Phyto Technology 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. Phyto Technology 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: July 2007

Emily Burdick

Quality Assurance Manager



PhytoTechnology
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Dedicated to Growth

PhytoTechnology Laboratories, LLC

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