CERTIFICATE OF ANALYSIS

Product Description   MAGNESIUM SULFATE, ANHYDROUS
Product Number   M150
Lot Number   11K0150024
Storage Temperature   Room Temperature
Molecular Weight   120.37
Formula $MgSO_4$
CAS Number   7487-88-9

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	7.45
Physical Appearance		
Color*	RM-1 to RM-3, or RM-31	RM-31 White
Texture	Fine Powder, may form clumps	Fine Powder, forms clumps
Solution Appearance		
Clarity	Clear	Clear
Color	Colorless	Colorless
Average Time to Dissolve	Within 5 min	Passes
Insolubles	None	Passes
Purity	Minimum 97.0%	100%
Loss on Drying	For Information Only	1.0%

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

Biological Testing:

Test Concentration: 180 mg/L

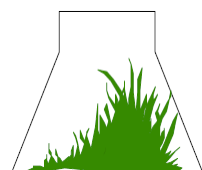| TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultured lines with no morphological aberrations to plants	Begonia	Passes
	Hosta	Passes

The material described in this certificate is synthetic. No animal- or plant-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: October 2014

Gary Seckinger, Ph.D.