

# CERTIFICATE OF ANALYSIS

Product Description      MAGNESIUM SULFATE, HEPTAHYDRATE  
                                  ACS REAGENT/ USP GRADE  
Product Number         M200  
Lot Number              08L20021  
Storage Temperature    Room Temperature  
Molecular Weight       246.48  
Formula                 MgSO<sub>4</sub>•7H<sub>2</sub>O  
CAS Number             10034-99-8

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	5.47
Physical Appearance Color* Texture	RM-1 to RM-3, or RM-31 Crystals to Crystalline Powder	RM-1 White Crystals
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 1 min	Passes
Insolubles	None	Passes
Purity (Anhydrous Basis)	Minimum 98.0%	99.98%
Heavy Metals (as Pb)	For Information Only	0.5 ppm

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

## Biological Testing:

Test Concentration: 200.0 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	Potato	Passes
	Syngonium	Passes

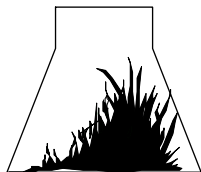
The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

**PhytoTechnology Laboratories, 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: November 2013



Gary Seckinger, Ph.D.



PhytoTechnology  
Laboratories, LLC  
Dedicated to Growth

### **PhytoTechnology Laboratories, LLC**

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