

CERTIFICATE OF ANALYSIS

Product Description MAGNESIUM SULFATE, HEPTAHYDRATE
 ACS REAGENT/ USP GRADE
Product Number M200
Lot Number 06L20018
Storage Temperature Room Temperature
Molecular Weight 246.48
Formula $MgSO_4 \cdot 7H_2O$
CAS Number 10034-99-8

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water	Soluble in Water
pH (0.20 g/L)	5.25 – 6.25	5.92
Physical Appearance		
Color*	RM-31 (Brilliant White) RM-1 to RM-3	RM-3 (Decorators White)
Texture	Crystalline Powder	Crystalline Powder
Solution Appearance		
Clarity	Clear	Clear
Color	Colorless	Colorless
Average Time to Dissolve	Within 1 min	Within 1 min
Precipitation Formation	None	None
Assay	99.5%	99.5%
Heavy Metals	10 ppm	<10 ppm

* 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	Venus Flytrap	Passes—supported plant growth and/or shoot proliferation with no morphological aberrations to plants
	Syngonium	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: November 2011

Emily Burdick

Quality Assurance Manager