# CERTIFICATE OF ANALYSIS

| | |
|---|---|
| Product Description | MAGNESIUM SULFATE, HEPTAHYDRATE<br>ACS REAGENT |
| Product Number | M200 |
| Lot Number | 15F0200029 |
| 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 @ 10 mg/mL | Passes |
| pH | Under Development | 5.7 |
| Physical Appearance<br>Color*<br>Texture | <br>PM-1 to PM-4<br>Crystalline Powder to Crystals | <br>PM-4 White<br>Crystals |
| Solution Appearance<br>Clarity<br>Color | <br>Clear<br>Colorless | <br>Clear<br>Colorless |
| Average Time to Dissolve | For Information Only<br>(Approx. 1 min) | 1 min |
| Insolubles | None | Passes |
| Purity | Minimum 98.0% | 99.99% |

* 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 | African Violet | Passes |
| | Cape Primrose | Passes |

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

***Phyto*Technology 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. *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 2023

Gary Seckinger, Ph.D.


***Phyto*Technology Laboratories®**
Mailing Address: P.O. Box 12205, Shawnee Mission, KS 66282-2205
Phone: 1-888-749-8682 (1-913-341-5343 *Outside the USA & Canada*)
Fax: 1-888-449-8682 (1-913-341-5442 *Outside the USA & Canada*)
Visit our Web Site at http://www.phytotechlab.com

*Phyto*Technology Laboratories®
*Dedicated to Growth*


ISO 9001 REGISTERED FIRM

*Created on 31 July 2015 JN*