

# CERTIFICATE OF ANALYSIS

Product Description      DECONSTRUCTED MS GROUP IV-MICROS (w/o Fe), 100X  
 Product Number          M5634  
 Lot Number                16D5634001  
 Storage Temperature     2-6 °C

**Physiochemical Specifications:**

| TEST                  | SPECIFICATION     | RESULTS   |
|-----------------------|-------------------|-----------|
| Solubility            | Soluble in Water  | Passes    |
| pH                    | Under Development | 4.3       |
| Physical Appearance   |                   |           |
| Color*                | Under Development | Clear     |
| Texture               | Under Development | Colorless |
| Insolubles            | None              | Passes    |
| Sterility by USP <71> | Sterile           | Passes    |

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

**Biological Testing:**

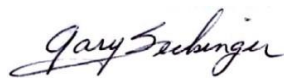
Test Concentration: 1 mL/L

| 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 | Cape Primrose   | Passes  |
|  | Ajuga           | Passes  |

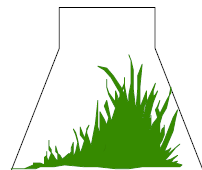
The material described in this certificate was manufactured in the United States of America and is synthetic in nature. No animal- or plant-derived components were used in the manufacture of this product.

***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: May 2019



Gary Seckinger, Ph.D.



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