

CERTIFICATE OF ANALYSIS

Product Description MURASHIGE & SKOOG MODIFIED MINIMAL ORGANICS
Product Number M549
Lot Number 11H0549013
Storage Temperature 2-6 °C

Physiochemical Specifications:

| TEST | SPECIFICATION | RESULTS |
|---|--|--|
| Solubility | Soluble in Water | Passes |
| pH (4.40 g/L) | Under Development | 5.04 |
| Physical Appearance Color* | Under Review | 2146-70 Off-White w/Slight Cream Tint |
| Texture | Fine to Coarse Powder | Fine Powder |
| Solution Appearance Clarity Color | Clear Colorless to Slight Yellow Tint | Clear Slight Yellow Tint |
| Average Time to Dissolve | Within 3 min | Passes |
| Insolubles | None | Passes |

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

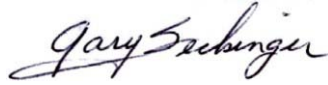
Biological Testing:

| TEST SPECIFICATION | PLANT CELL LINE | RESULTS |
|--|-----------------|---------|
| Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultures with no morphological aberrations to plants | Syngonium | Passes |
| | Perilla Fantasy | Passes |

The material described in this certificate was manufactured in the United States of America and 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: August 2014



Gary Seckinger, Ph.D.



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