

CERTIFICATE OF ANALYSIS

Product Description MURASHIGE & SKOOG MODIFIED BASAL SALT MIXTURE
WITHOUT AMMONIUM NITRATE
Product Number M571
Lot Number 11K0571009
Storage Temperature 2-6 °C

Physiochemical Specifications:

| TEST | SPECIFICATION | RESULTS |
|--------------------------------|---|--------------------|
| Solubility | Soluble in Water | Passes |
| pH (2.68 g/L) | 3.5 – 4.5 | 4.15 |
| Physical Appearance Color* | 2143-70 to 2147-70, RM-1 to RM-3, or RM-31 | RM-31 White |
| Texture | Fine Powder | Fine Powder |
| Solution Appearance Clarity | Clear | Clear |
| Color | Colorless to Slight Yellow Tint | Slight Yellow Tint |
| Average Time to Dissolve | Within 5 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 cultured lines with no morphological aberrations to plants | Achimenes | Passes |
| | Tobacco callus | Passes |

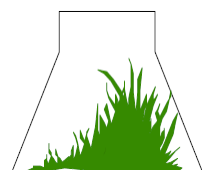
The material described in this certificate was manufactured in the United States of America and is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

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: October 2014



Gary Seckinger, Ph.D.



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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>



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