CERTIFICATE OF ANALYSIS

Product Description MURASHIGE & SKOOG BASAL MEDIUM W/ VITAMINS

Product Number M519

Lot Number ACR0519178

Storage Temperature 2-8°C

Physiochemical Specifications:

| TEST | SPECIFICATION | RESULTS |
|--------------------------|---------------------------------|--------------------|
| Solubility | Soluble in Water | Passes |
| pH (4.43 g/L) | 3.5 - 4.5 | 4.0 |
| Physical Appearance | | |
| Color* | 2022-70 to 2026-70, | |
| | PM-1 to PM-4, or PM-19 | PM-1 Off-White |
| Texture | Fine Powder | Fine Powder |
| Solution Appearance | | |
| Clarity | Clear | Clear |
| Color | Colorless to Slight Yellow Tint | Slight Yellow Tint |
| | For Information Only | |
| Average Time to Dissolve | (Approx. 3 min) | 3 min |
| Insolubles | None | Passes |
| Moisture | For Information Only | 1.13% |

^{*} Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color PreviewTM).

Biological Testing:

| TEST SPECIFICATION | PLANT CELL LINE | RESULTS |
|--|-----------------|---------|
| Supports and/or facilitates plant growth and/or shoot proliferation in two or more | Sugar Cane | Passes |
| plant tissue cultured lines with no morphological aberrations to plants | Ajuga | 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.

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.

Date of Release: 15-March-2018

Recommended Shelf Life Date: March 2021

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