CERTIFICATE OF ANALYSIS

Product Description	MURASHIGE & SKOOG BASAL MEDIUM W/ VITAMINS
Product Number	M519
Lot Number	SUT0519158
Storage Temperature	2-6 ˚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-4 White
Texture	Fine Powder	Fine Powder
Solution Appearance		
Clarity	Clear	Clear
Color	Colorless to Slight Yellow Tint	Slight Yellow Tint
Average Time to Dissolve	For Information Only (Approx. 3 min)	10 min
Insolubles	None	Passes
Moisture	For Information Only	0.96%

* 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	Sugar Cane	Passes
	Begonia	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: 17-August-2016
Recommended Shelf Life Date: September 2019

Gary Seckinger, Ph.D.

P*hyto*Technology Laboratories®
Dedicated to Growth

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