CERTIFICATE OF ANALYSIS

Product Description	AGAR, PLANT TC MICROPROPAGATION GRADE - GRACILARIA
Product Number	A111
Lot Number	SUT0111154
Storage Temperature	Room Temperature
CAS Number	9002-18-0

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water Heated to Boiling	Passes
pH (8.00 g/L)	5.5 – 9.5	6.8
Physical Appearance Color* Texture	 2016-70 to 2021-70, 2151-70 to 2156-70, 2150-60 to 2154-60, HC-32, or HC-36 Fine to Coarse Powder	 HC-32 Tan Coarse Powder
Solution Appearance After Heating Clarity Color	 Clear to Slightly Hazy Colorless to Slight Yellow Tint	 Clear Slight Yellow Tint
Insolubles	None	Passes
Gel Strength	Minimum 900 g/cm^2	1130 g/cm2
Gel Formation	Forms Gel When Suspend in Appropriate Solvent and Heated to Boiling	Passes
Compression Break Force Test	Force Gauge Measurement (g/cm$^{2)}$ For Information Only	225 g/cm^2

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

Biological Testing:

Test Concentration: 8.0 g/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
This product is tested with two or more plant cell lines to ensure proper gelling, support, and that there are no phytotoxic impurities that would cause morphological aberrations to plants.	Cape Primrose	Passes
	Achimenes	Passes

The material described in this certificate is plant-derived (Seaweed). No animal-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: 11-August-2016
Recommended Shelf Life Date: September 2024

Gary Seckinger, Ph.D.

P*hyto*Technology Laboratories®
Dedicated to Growth

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