## CERTIFICATE OF ANALYSIS

Product Description AGAR, PLANT TC

MICROPROPAGATION GRADE - GRACILARIA

Product Number A111

Lot Number HCA0111193

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	7.1
Physical Appearance		
Color*	2016-70 to 2021-70, 2151-70 to	
	2156-70, 2150-60 to 2154-60,	
	HC-32, or HC-36	2017-70 Cream-White
Texture	Fine to Coarse Powder	Fine Powder
Solution Appearance After Heating		
Clarity	Clear to Slightly Hazy	Slightly Hazy
Color	Colorless to Slight Yellow Tint	Slight Yellow Tint
Insolubles	None	Passes
Gel Strength	Minimum 900 g/cm <sup>2</sup>	$1050 \text{ g/cm}^2$
	Forms Gel When Suspend in	
Gel Formation	Appropriate Solvent and Heated to	Passes
	Boiling	
Communication Devolutions Test	Force Gauge Measurement (g/cm <sup>2)</sup>	335.6 g/cm <sup>2</sup>
Compression Break Force Test	For Information Only	

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

## 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.	Tobacco Callus	Passed
	African Violet	Passed

The material described in this certificate is plant-derived (Seaweed). No animal-derived components were used in the manufacture of this product.

PhytoTech Labs Inc. provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTech Labs Inc. 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: 31-March-2020

Recommended Shelf Life Date: March-2028

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