

# CERTIFICATE OF ANALYSIS

Product Description      AGAR, PLANT TC  
MICROPROPAGATION GRADE - GRACILARIA  
Product Number          A111  
Lot Number                ATK0111191  
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	7.4
Physical Appearance Color*	2016-70 to 2021-70, 2151-70 to 2156-70, 2150-60 to 2154-60, HC-32, or HC-36	HC-32 Light Tan
Texture	Fine to Coarse Powder	Fine Powder
Solution Appearance After Heating Clarity Color	Clear to Slightly Hazy Colorless to Slight Yellow Tint	Slightly Hazy Slight Yellow Tint
Insolubles	None	Passes
Gel Strength	Minimum 900 g/cm <sup>2</sup>	1090 g/cm <sup>2</sup>
Gel Formation	Forms Gel When Suspend in Appropriate Solvent and Heated to Boiling	Passes
Compression Break Force Test	Force Gauge Measurement (g/cm <sup>2</sup> ) For Information Only	184.8 g/cm <sup>2</sup>

\* 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.	Ajuga	Passes
	African Violet	Passes

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: 6-January-2020

Recommended Shelf Life Date: January-2028



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