CERTIFICATE OF ANALYSIS

Product Description	AGAR, PLANT TC MICROPROPAGATION GRADE - GRACILARIA
Product Number	A111
Lot Number	HAE0111216
Storage Temperature	Room Temperature
CAS Number	9002-18-0

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Fully Dissolved in Water Post Autoclaving For A Minimum of 15 min	Passes
pH (8.00 g/L)	5.5 – 9.5	6.7
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	 2154-60 Cream Fine Powder
Solution Appearance After Heating Clarity Color	 Clear to Slightly Hazy Colorless to Slight Yellow Tint	 Clear Slight Yellow Tint
Moisture	For Information Only	15.99%
Insolubles	None	Passes
Gel Strength	Minimum 1000 g/cm^2	1040 g/cm^2
Gel Formation	Forms Gel Following Autoclaving For A Minimum of 15 min	Passes
Compression Break Force Test	Force Gauge Measurement (g/cm^2) For Information Only	181.2 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.	H38 Tobacco Callus	Passes
	Parrot Feather	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: 12-July-2024
Recommended Shelf-Life Date: July 2032

David Hart
Technical Director

PhytoTech Labs Inc.
14610 W 106TH St. Lenexa, KS 66215
Phone: 1-888-749-8682 or 1-913-341-5343
Phytotechlab.com