

# CERTIFICATE OF ANALYSIS

Product Description      AGAR,  
    TECHNICAL GRADE - GRACILARIA  
 Product Number         A1000  
 Lot Number                HAT1000005  
 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	6.5
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 Pale Yellow
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
Moisture	For Information Only	7.40%
Insolubles	None	Passes
Gel Strength	Minimum 1000 g/cm <sup>2</sup>	1120 g/cm <sup>2</sup>
Gel Formation	Forms Gel Following Autoclaving for a Minimum of 15 min	Passes
Compression Break Force Test	For Information Only- Force Gauge Measurement (g/cm <sup>2</sup> )	233.6 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 commonly used as a means of support in plant tissue culture. This product is tested with two or more plant cell lines to ensure proper gelling and that no phytotoxic impurities are present that would produce abnormal morphological plant development.	Perilla Fantasy	Passes
	Xanthi Tobacco Callus	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: 28-July-2025

Recommended Shelf-Life Date: July 2033

Prepared by:   
 Alex Lambert  
 Lead Quality Control Laboratory Technician

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