

# CERTIFICATE OF ANALYSIS

Product Description      AGAR, HIGH PURITY; PURIFIED GRADE – FROM GELIDIUM SP.  
 Product Number        A175  
 Lot Number              HKG0175102  
 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)	5.7 – 8.8	7.5
Physical Appearance Color* Texture	2146-70 to 2153-70 Fine to Coarse Powder	2146-70 Off-White Fine Powder
Solution Appearance After Heating Clarity Color	Clear to Slightly Hazy Colorless to Light Tan	Slightly Hazy Light Tan
Insolubles	None	Passes
Gel Strength	Minimum 950 g/cm <sup>2</sup>	1275 g/cm <sup>2</sup>
Gel Formation	Forms Gel Following Autoclaving for a Minimum of 15 min	Passes
Compression Break Force Test	Force Gauge Measurement (g/cm <sup>2</sup> ) For Information Only	94.8 g/cm <sup>2</sup>
SO <sub>4</sub> Content	≤1%	<1%
Ca <sup>2+</sup> Content	≤100 ppm	36 ppm
Mg <sup>2+</sup> Content	≤50 ppm	26 ppm

\* 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.	Xanthi Tobacco Callus	Passes
	Parrot Feather	Passes

The material described in this certificate is plant-derived (marine 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: 18-May-2026  
 Recommended Shelf-Life Date: May 2034

Prepared by:   
 Alex Lambert  
 Lead Quality Control Laboratory Technician