

# CERTIFICATE OF ANALYSIS

Product Description AGAR, PLANT TC  
MICROPROPAGATION GRADE - GRACILARIA  
Product Number A111  
Lot Number SWS0111164  
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   | 5.8                                 |
| Physical Appearance<br>Color*                         | 2016-70 to 2021-70, 2151-70 to 2156-70, 2150-60 to 2154-60, HC-32, or HC-36 | HC-32 Tan                           |
| Texture   | Fine to Coarse Powder   | Fine Powder                         |
| Solution Appearance After Heating<br>Clarity<br>Color | Clear to Slightly Hazy<br>Colorless to Slight Yellow Tint                   | Slightly Hazy<br>Slight Yellow Tint |
| Insolubles  | None  | Passes                              |
| Gel Strength  | Minimum 900 g/cm <sup>2</sup>   | 1130 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> )<br>For Information Only        | 315 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. | Coreopsis       | Passes  |
|   | Cape Primrose   | Passes  |

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

**PhytoTechnology Laboratories®** provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. **PhytoTechnology Laboratories®** 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: 23-October-2017

Recommended Shelf Life Date: October- 2025



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### **PhytoTechnology Laboratories®**

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