

# CERTIFICATE OF ANALYSIS

|                     |   |
|---------------------|---|
| Product Description | AGAR, PLANT TC<br>MICROPROPAGATION GRADE - GRACILARIA |
| Product Number      | A111  |
| Lot Number          | 14H0111130  |
| 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   | 5.5                                 |
| Physical Appearance<br>Color*                         | 2016-70 to 2021-70, 2151-70 to 2156-70, 2150-60 to 2154-60, HC-32, or HC-36 | 2155-70 Cream                       |
| Texture   | Fine Powder   | Fine Powder                         |
| Solution Appearance After Heating<br>Clarity<br>Color | Clear to Slight 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>   | 1150 g/cm <sup>2</sup>              |
| Gel Formation   | Forms Gel When Suspend in Appropriate Solvent and Heated to Boiling         | Passes                              |

\* 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. | Cape Primrose   | Passes  |
|   | Achimenes       | 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.**

Recommended Shelf Life Date: May 2022



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