CERTIFICATE OF ANALYSIS

Product Description

Product Number Lot Number Storage Temperature CAS Number AGAR, PLANT TC MICROPROPAGATION GRADE - GELIDIUM A296 AHK0296141 Room Temperature 9002-18-0

Physiochemical Specifications:

| TEST | SPECIFICATION | RESULTS |
|-----------------------------------|---|-----------------------|
| Solubility | Soluble in Water Heated to Boiling | Passes |
| pH (8.00 g/L) | 6.0 - 10.5 | 7.1 |
| Physical Appearance | | |
| Color* | 2152-70 to 2156-70, 2149-60 to | |
| | 2155-60, 2151-50 to 2152-50, or HC-6 | HC-6 Light Tan |
| Texture | Fine to Coarse Powder | Fine Powder |
| Solution Appearance After Heating | | |
| Clarity | Clear to Slightly Hazy | Slightly Hazy |
| Color | Light Tan to Light Gray-Green | Light Gray-Green |
| Insolubles | None | Passes |
| | Forms Gel When Suspended in | |
| Gel Formation | Appropriate Solvent and Heated to | Passes |
| | Boiling | |
| Gel Strength | Minimum 700 g/cm ² | 930 g/cm ² |
| Compression Break Force Test | Force Gauge Measurement (g/cm ²⁾ | 84 g/cm^2 |
| 1 | For Information Only | E. |

* Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color PreviewTM).

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, | African Violet | Passes |
| support, and that there are no phytotoxic impurities that would cause morphological aberrations to plants. | Ajuga | Passes |

The material described in this certificate is derived from marine algae (seaweed). No animal-derived components were used in the manufacture of this product.

*Phyto*Technology 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. *Phyto*Technology 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: 15-April-2019 Recommended Shelf Life Date: April-2027

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