

# CERTIFICATE OF ANALYSIS

|                     |  |
|---------------------|--|
| Product Description | MURASHIGE & SKOOG BASAL MEDIUM W/ VITAMINS |
| Product Number      | M519                                       |
| Lot Number          | HYA0519225                                 |
| Storage Temperature | 2-8°C                                      |

## **Physiochemical Specifications:**

| TEST                           | SPECIFICATION                                 | RESULTS     |
|--------------------------------|---|-------------|
| Solubility                     | Soluble in Water                              | Passes      |
| pH (4.43 g/L)                  | 3.5 – 4.5                                     | 3.9         |
| Physical Appearance<br>Color*  | 2022-70 to 2026-70,<br>PM-1 to PM-4, or PM-19 | PM-1 White  |
| Texture                        | Fine Powder                                   | Fine Powder |
| Solution Appearance<br>Clarity | Clear   | Clear       |
| Color                          | Colorless to Slight Yellow Tint               | Colorless   |
| Average Time to Dissolve       | For Information Only<br>(Approx. 3 min)       | Passes      |
| Insolubles                     | None  | Passes      |
| Moisture                       | For Information Only                          | 2.26%       |

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

## **Biological Testing:**

| TEST SPECIFICATION   | PLANT CELL LINE | RESULTS |
|--|-----------------|---------|
| Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultured lines with no morphological aberrations to plants | African Violet  | Passes  |
|  | Tobacco Callus  | Passes  |

The material described in this certificate was manufactured in the United States of America and is synthetic. No animal- or plant-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: 5-March-2020

Recommended Shelf Life Date: March-2023



David S. Hart  
Technical Services Manager

**PhytoTech Labs Inc.**  
14610 W 106<sup>TH</sup> St. Lenexa, KS 66215  
Phone: 1-888-749-8682 or 1-913-341-5343  
Fax: 1-888-449-8682 or 1-913-341-5442  
Phytotechlab.com