

# CERTIFICATE OF ANALYSIS

|                     |   |
|---------------------|---|
| Product Description | GIBBERELIC ACID<br>GA <sub>3</sub> ; GIBBERELLIN A <sub>3</sub> |
| Product Number      | G500  |
| Lot Number          | 13J0500012  |
| Storage Temperature | 2-6 °C  |
| Molecular Weight    | 346.41  |
| Formula             | C <sub>19</sub> H <sub>22</sub> O <sub>6</sub>                  |
| CAS Number          | 77-06-5   |

## Physiochemical Specifications:

| TEST                                    | SPECIFICATION                                 | RESULTS            |
|---|---|--------------------|
| Solubility                              | Soluble in 1N KOH @ 10 mg/mL                  | Passes             |
| Physical Appearance<br>Color*           | 2144-70 to 2148-70,<br>RM-1 to RM-4, or RM-31 | RM-31 White        |
| Texture                                 | Fine Powder                                   | Fine Powder        |
| Solution Appearance<br>Clarity<br>Color | Clear<br>Colorless                            | Clear<br>Colorless |
| Average Time to Dissolve                | Within 1 min                                  | Passes             |
| Insolubles                              | None  | Passes             |
| FTIR                                    | Conforms to Structure                         | Passes             |
| Purity                                  | Minimum 90.0%                                 | 91.20%             |

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

## Biological Testing:


Test Concentration: 10 mg/L

| 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 | Boston Fern     | Passes  |
|  | Syngonium       | Passes  |

The material described in this certificate is synthetic. No animal- or plant-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: September 2018



Gary Seckinger, Ph.D.



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### PhytoTechnology Laboratories®

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