

# CERTIFICATE OF ANALYSIS

|                     |   |
|---------------------|---|
| Product Description | (+)-ABSCISIC ACID<br>ABA; (2Z,4E)-5-[(1S)-HYDROXY-2,6,6,-TRIMETHYL-4-OXO-2-CYCLOHEXEN-1-YL]-3-METYL-2,4-PENTADIENOIC ACID |
| Product Number      | A102  |
| Lot Number          | 09C0102046  |
| Storage Temperature | -20-0° C  |
| Molecular Weight    | 264.32  |
| Formula             | C <sub>15</sub> H <sub>20</sub> O <sub>4</sub>  |
| CAS Number          | 21293-29-8  |

## Physiochemical Specifications:

| TEST                     | SPECIFICATION                                 | RESULTS        |
|--------------------------|---|----------------|
| Solubility               | Soluble in 1 N KOH @10 mg/mL                  | Passes         |
| Physical Appearance      |   |                |
| Color*                   | 2022-70 to 2026-70,<br>RM-1 to RM-3, or RM-31 | RM-1 Off-White |
| Texture                  | Fine to Coarse Powder                         | Fine Powder    |
| Solution Appearance      |   |                |
| Clarity                  | Clear   | Clear          |
| Color                    | Colorless                                     | Colorless      |
| Average Time to Dissolve | Within 1 min                                  | Passes         |
| Insolubles               | None  | Passes         |
| Purity                   | Minimum 98%                                   | > 98.5%        |
| Water Content            | For Information Only                          | < 1.0%         |

\* 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 |
|---|-----------------|---------|
| This product may or may not support tissue growth. This product is tested with two or more plant cell lines to ensure there are no phytotoxic impurities exhibited by morphological aberrations to the plants | Lily            | Passes  |
|   | Coreopsis       | Passes  |

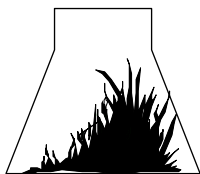
The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

**PhytoTechnology Laboratories, LLC 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: March 2011



Gary Seckinger, Ph.D.



PhytoTechnology  
Laboratories, LLC  
Dedicated to Growth

### PhytoTechnology Laboratories, LLC

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