

# CERTIFICATE OF ANALYSIS

Product Description (+/-)-ABSCISIC ACID  
MIXED (CIS-TRANS) ISOMER; S-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 11E0102062  
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<br>Color*           | 2022-70 to 2026-70,<br>RM-1 to RM-3, or RM-31 | RM-31 White        |
| Texture                                 | Fine to Coarse 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             |
| Purity                                  | Minimum 98%                                   | 99.0%              |

\* 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 | Begonia         | Passes  |
|   | Tobacco callus  | Passes  |

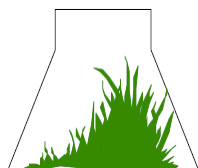
The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

**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: May 2013



Gary Seckinger, Ph.D.



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### **PhytoTechnology Laboratories®**

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