

# CERTIFICATE OF ANALYSIS

|                     |   |
|---------------------|---|
| Product Description | D-SUCROSE, CRYSTALLINE<br>$\beta$ -D-FRUCTOFURANOSYL- $\alpha$ -D-GLUCOPYRANOSIDE; CANE SUGAR |
| Product Number      | S391  |
| Lot Number          | 15C0391167  |
| Storage Temperature | Room Temperature  |
| Molecular Weight    | 342.34  |
| Formula             | $C_{12}H_{22}O_{11}$  |
| CAS Number          | 57-50-1   |

## Physiochemical Specifications:

| TEST                                     | SPECIFICATION  | RESULTS                          |
|--|--|----------------------------------|
| Solubility                               | Soluble in Water                                       | Passes                           |
| pH (30.00 g/L)                           | 4.5 – 6.5  | 4.8                              |
| Physical Appearance<br>Color*<br>Texture | PM-1 to PM-4, PM-13, or<br>PM-19<br>Crystalline Powder | PM-4 White<br>Crystalline Powder |
| Solution Appearance<br>Clarity<br>Color  | Clear<br>Colorless                                     | Clear<br>Colorless               |
| Average Time to Dissolve                 | For Information Only<br>(Approx. 3 mins)               | 3 mins                           |
| Insolubles                               | None   | Passes                           |
| FTIR                                     | Conforms to Structure                                  | Passes                           |

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

## Biological Testing:

Test Concentration: 30.0 g/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. | Tobacco Callus  | Passes  |
|   | Perilla         | Passes  |

The material described in this certificate was manufactured in the United States of America and is highly refined, so as to be considered synthetic from plant (sugar cane) starting material. No animal-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: April 2023



Gary Seckinger, Ph.D.



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### **PhytoTechnology Laboratories®**

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