

# CERTIFICATE OF ANALYSIS

Product Description D-FRUCTOSE, CRYSTALLINE  
D-LEVULOSE, FRUIT SUGAR  
Product Number F563  
Lot Number HAE0563010  
Storage Temperature Room Temperature  
Molecular Weight 180.16 g/mol  
Formula C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>  
CAS Number 57-48-7

## Physiochemical Specifications:

| TEST                                     | SPECIFICATION                                    | RESULTS                          |
|--|--|----------------------------------|
| Solubility                               | Soluble in Water @ 20 g/L                        | Passes                           |
| pH                                       | Under Development                                | 5.7                              |
| Physical Appearance<br>Color*<br>Texture | PM-1 to PM-4, PM-19, PM-13<br>Crystalline Powder | PM-4 White<br>Crystalline Powder |
| Solution Appearance<br>Clarity<br>Color  | Clear<br>Colorless                               | Clear<br>Colorless               |
| Insolubles                               | None   | Passes                           |
| FTIR                                     | Conforms to Structure                            | Passes                           |
| Purity                                   | Minimum 99.5%                                    | 100.00%                          |

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

## Biological Testing:

Test Concentration: 20.0 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. | Perilla Fantasy | Passes  |
|   | Ipomea Batatas  | 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 starting material. No animal-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: 13-August-2024

Recommended Shelf-Life Date: August 2032



David Hart  
Technical Director