

# CERTIFICATE OF ANALYSIS

Product Description      CALCIUM GLUCONATE MONOHYDRATE; D-GLUCONIC ACID,  
CALCIUM SALT  
Product Number          C231  
Lot Number                HRE0231024  
Storage Temperature      Room Temperature  
Molecular Weight        448.39  
Formula                    C<sub>12</sub>H<sub>22</sub>O<sub>14</sub>Ca • H<sub>2</sub>O  
CAS Number                66905-23-5

## Physiochemical Specifications:

| TEST                                     | SPECIFICATION                           | RESULTS                   |
|--|---|---------------------------|
| Solubility                               | Soluble in Hot Water @ 2.5 mg/mL        | Passes                    |
| pH                                       | Under Development                       | 6.5                       |
| Physical Appearance<br>Color*<br>Texture | PM-1 to PM-4<br>Fine Powder to Granules | PM-1 White<br>Fine Powder |
| Solution Appearance<br>Clarity<br>Color  | Clear<br>Colorless                      | Clear<br>Colorless        |
| Insolubles                               | None                                    | Passes                    |
| FTIR                                     | Conforms to Structure                   | Passes                    |
| Purity                                   | Minimum 98.5%                           | 99.70%                    |

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

## Biological Testing:

Test Concentration: 350 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 | African Violet        | Passes  |
|  | Xanthi 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.

**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: 22-November-2024

Recommended Shelf-Life Date: November 2032

Prepared by: 

Alex Lambert

Lead Quality Control Laboratory Technician