

CERTIFICATE OF ANALYSIS

Product Description CALCIUM GLUCONATE, MONOHYDRATE
Product Number C231
Lot Number 08L23104
Storage Temperature Room Temperature
Molecular Weight 448.39
Formula $C_{12}H_{22}O_{14}Ca \cdot H_2O$
CAS Number 299-28-5

Physicochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility ¹	Soluble in Hot Water @ 2.5 mg/mL	Passes
pH	Under Development	6.37 @ 39.8° C
Physical Appearance Color* Texture	RM-1 to RM-3, or RM-31 Granules	RM-1 White Granules
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 5 min	Passes
Insolubles	None	Passes
Purity	Minimum 98.5%	99.3%
Loss on Drying	For Information Only	0.3%
Heavy Metals (as Pb)	For Information Only	≤ 20 ppm

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

¹ When added to tissue culture medium, this product should first be dissolved in water. Solubility in salt solution (e.g., TC medium) may be limited.

Biological Testing:

Test Concentration: 350.0 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	Strawberry	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, 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: November 2013



Gary Seckinger, Ph.D.



PhytoTechnology
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Dedicated to Growth

PhytoTechnology Laboratories, LLC

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