PhytoTechnology Laboratories, LLC™

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"Helping To Build A Better Tomorrow Through Plant Science"™

Product Information Sheet

C024

	C231
	Calcium Gluconate
D-Gluconic Acid, Calcium Salt Monohydrate	O'
299-28-5	HO
$C_{12}H_{22}O_{14}Ca \cdot H_2O$	ÓН
448.39 g/mol	HO
	ОН НОШИ.
Powder	. Ca ²⁺
White to Off-White Granules	но но
Plant Mesonutrient	ОН СОН
Water	óн
Varies by application, should be	
determined by the end user.	
Room Temperature	0 [.]
Plant Tissue Culture Tested	
	Monohydrate 299-28-5 C ₁₂ H ₂₂ O ₁₄ Ca•H ₂ O 448.39 g/mol Powder White to Off-White Granules Plant Mesonutrient Water Varies by application, should be determined by the end user. Room Temperature

Application Notes:

Calcium gluconate is an alternative calcium source for plant tissue culture as opposed to calcium chloride and calcium nitrate. When combined with MES and lower growing temperatures (<25°C) it has been shown to reduce shoot-tip necrosis in *Populus* sp. (De Block 1990).

Please Note: While PhytoTechnology Laboratories[™] tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

References:

De Block M (1990) Factors Influencing the Tissue Culture and the Agrobacterium tumefaciens-Mediated Transformation of Hybrid Aspen and Poplar Clones. *Plant Physiol.* Vol. 93(3):1110-1116 *Merck* **13**, 1671

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