

CERTIFICATE OF ANALYSIS

Product Description	D-MALTOSE, MONOHYDRATE CRYSTALLINE 4-O- α -D-GLUCOPYRANOSYL-D-GLUCOSE
Product Number	M588
Lot Number	13A0588040
Storage Temperature	Room Temperature
Molecular Weight	360.32
Formula	C ₁₂ H ₂₂ O ₁₁ •H ₂ O
CAS Number	6363-53-7

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 100 mg/mL	Passes
pH	Under Development	4.4
Physical Appearance Color* Texture	RM-1 to RM-3, or RM-31 Fine to Crystalline Powder	RM-31 White Fine Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 5 min	Passes
Insolubles	None	Passes
Purity	Minimum 92.0%	95.70%
Osmolality (50g/L) [mOsm/L]	Under Development	141.0

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

Biological Testing:

Test Concentration: 10.0 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	Carrot callus	Passes
	Kalanchoe	Passes

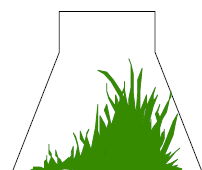
The material described in this certificate is highly refined, so as to be considered synthetic from plant starting material. No animal-derived components were used in the manufacture of this product.

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: January 2021



Gary Seckinger, Ph.D.



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