CERTIFICATE OF ANALYSIS

Product Description	D-MALTOSE, MONOHYDRATE CRYSTALLINE 4-O-α-D-GLUCOPYRANOSYL-D-GLUCOSE
Product Number	M588
Lot Number	HHW0588048
Storage Temperature	Room Temperature
Molecular Weight	360.32
Formula	$C_{12}H_{22}O_{11}\cdot H_2O$
CAS Number	6363-53-7

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 100 mg/mL	Passes
pH	4.0 – 6.0	5.8
Physical Appearance Color* Texture	 PM-1 to PM-4 Fine to Crystalline Powder	 PM-2 White Crystalline Powder
Solution Appearance Clarity Color	 Clear Colorless	 Clear Colorless
Average Time to Dissolve	For Information Only (Approx. 5 min)	Passes
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	Minimum 92.0%	96.00%

* 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	Achimenes	Passes
	Xanthi Tobacco Callus	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.

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: 11-April-2023
Recommended Shelf Life Date: April 2031

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