

CERTIFICATE OF ANALYSIS

Product Description D-MALTOSE, MONOHYDRATE
CRYSTALLINE
4-O- α -D-GLUCOPYRANOSYL-D-GLUCOSE
Product Number M588
Lot Number 16D0588043
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	4.2
Physical Appearance Color* Texture	PM-1 to PM-4 Fine to Crystalline Powder	PM-4 White Fine Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	For Information Only (Approx. 5 min)	2 min
Insolubles	None	Passes
Purity	Minimum 92.0%	100.4%
Osmolality (50g/L) [mOsm/L]	Under Development	150.0

* 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	Perilla Fantasy	Passes
	Dianthus Artic Fire	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.

Date of Release: 28-August 2017

Recommended Shelf Life Date: August 2025



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