

CERTIFICATE OF ANALYSIS

Product Description D-MALTOSE, MONOHYDRATE
CRYSTALLINE
4-O- α -D-GLUCOPYRANOSYL-D-GLUCOSE
Product Number M588
Lot Number 14M0588041
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	Under Development	5.0
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	Within 5 min	Passes
Insolubles	None	Passes
Purity	Minimum 92.0%	95.2%
Osmolality (50g/L) [mOsm/L]	Under Development	149.0

* 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	Coreopsis	Passes
	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.

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: December 2022



Gary Seckinger, Ph.D.



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Mailing Address: P.O. Box 12205, Shawnee Mission, KS 66282-2205
Phone: 1-888-749-8682 (1-913-341-5343 *Outside the USA & Canada*)
Fax: 1-888-449-8682 (1-913-341-5442 *Outside the USA & Canada*)
Visit our Web Site at <http://www.phytotechlab.com>

