

CERTIFICATE OF ANALYSIS

Product Description D-(+) MANNOSE
Product Number M486
Lot Number 09B048002
Storage Temperature Room Temperature
Molecular Weight 180.16
Formula $C_6H_{12}O_6$
CAS Number 3458-28-4

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 100 mg/mL	Passes
pH	Under Development	6.34
Physical Appearance Color* Texture	RM-1 to RM-3, or RM-31 Fine Powder	RM-31 White Fine Powder w/ Clumps
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 3 min	Passes
Insolubles	None	Passes
Purity by HPLC	Minimum 98.0%	100%
Water Content by Karl Fischer	For Information Only	0.1%

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

Biological Testing:

Test Concentration: 1.0 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	Boston Fern	Passes
	Syngonium	Passes

The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

PhytoTechnology Laboratories, LLC 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: February 2017



Gary Seckinger, Ph.D.



PhytoTechnology
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Dedicated to Growth

PhytoTechnology Laboratories, LLC

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Created on 26 March 2009