CERTIFICATE OF ANALYSIS

Product Description D-FRUCTOSE, CRYSTALLINE

D-LEVULOSE, FRUIT SUGAR, USP/FCC GRADE

Product Number F563

Lot Number 11F0563002

Storage Temperature Room Temperature

Molecular Weight 180.16Formula $C_6H_{12}O_6$ CAS Number 57-48-7

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @20 g/L	Passes
pН	Under Development	4.15
Physical Appearance		
Color*	RM-1 to RM-5 or RM-31	RM-31 White
Texture	Crystalline Powder, may form clumps	Crystalline Powder w/Clumps
Solution Appearance		
Clarity	Clear	Clear
Color	Colorless	Colorless
Average Time to Dissolve	Within 3 min	Passes
Purity	Minimum 99.5%	100.00%
Loss on Drying	Maximum 0.5%	0.03%
Insolubles	None	Passes
USP/FCC Required Tests	Passes	Passes

^{*} Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color PreviewTM).

Biological Testing:

Test Concentration: 20.0 g/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or	Tobacco callus	Passes
more plant tissue cultured lines with no morphological aberrations to plants.	Boston Fern	Passes

The material described in this certificate was manufactured in the United States of America and 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.

Phyto Technology 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. Phyto Technology 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: June 2019

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PhytoTechnology Laboratories®

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