CERTIFICATE OF ANALYSIS

Product Description	D-SUCROSE, CRYSTALLINE β-D-FRUCTOFURANOSYL-α-D-GLUCOPYRANOSIDE; CANE SUGAR
Product Number	S391
Lot Number	ACR0391188
Storage Temperature	Room Temperature
Molecular Weight	342.34 g/mol
Formula	$C_{12}H_{22}O_{11}$
CAS Number	57-50-1

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water	Passes
pH (30.00 g/L)	4.0 – 6.5	6.0
Physical Appearance Color* Texture	 PM-1 to PM-4, PM-13, or PM-19 Crystalline Powder	 PM-4 White Crystalline Powder
Solution Appearance Clarity Color	 Clear Colorless	 Clear Colorless
Average Time to Dissolve	For Information Only (Approx. 3 min)	3 min
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	For Information Only	99.92%
Moisture	For Information Only	0.024%

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

Biological Testing:

Test Concentration: 30.0 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.	Sugar Cane	Passes
	Tobacco Callus	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 (sugar cane) 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.**

Date of Release: 28-March-2018
Recommended Shelf Life Date: March 2026

David S. Hart
Technical Director

P*hyto*Technology Laboratories®
Dedicated to Growth

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