CERTIFICATE OF ANALYSIS

Product Description	AGARGELLAN™
Product Number	A133
Lot Number	SUT0133042
Storage Temperature	Room Temperature

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Partially Soluble to Soluble in Water Heated to Boiling	Passes
pH (4.50 g/L)	5.5 – 9.0	6.7
Physical Appearance Color* Texture	 2148-70 to 2160-70 Fine to Coarse Powder	 2153-70 Cream Fine Powder
Solution Appearance After Heating Clarity Color	 Clear to Slightly Hazy Colorless to Light Tan	 Slightly Hazy Light Tan
Insolubles	None	Passes
Gel Formation	Forms Gel When Suspend in Appropriate Solvent and Heated to Boiling	Passes
Compression Break Force Test	Force Gauge Measurement ($g/cm^{2)}$ For Information Only	80 g/cm^2

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

Biological Testing:

Test Concentration: 4.5 g/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
This product is tested with two or more plant cell lines to ensure proper gelling, support, and that there are no phytotoxic impurities that would cause morphological aberrations to plants.	Tobacco Callus	Passes
	Sugar Cane	Passes

The material described in this certificate was manufactured in the United States of America and contains synthetic and plant (seaweed)-derived components. 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: 11-August-2016
Recommended Shelf Life: September 2024

Gary Seckinger, Ph.D.

P*hyto*Technology Laboratories®
Dedicated to Growth

***Phyto*Technology Laboratories®**
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

ISO 9001 REGISTERED FIRM