CERTIFICATE OF ANALYSIS

Product Description	CARRAGEENAN GELCARIN GP 812® ; IRISH MOSS
Product Number	C257
Lot Number	16B0257020
Storage Temperature	Room Temperature
CAS Number	9000-07-1

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water Heated to Boiling	Passes
pH (10.00 g/L)	6.7 – 9.8	9.4
Physical Appearance Color* Texture	 AC-4, HC-3, HC-32, HC-39, or HC-174 Fine Powder	 AC-4 Tan Fine Powder
Solution Appearance After Heating Clarity Color	 Clear to Hazy Tan to Light Brown Tint	 Clear Tan Tint
Insolubles	None to Fine	Passes--None
Moisture %	For Information Only	11.1%
Gel Formation	Forms Gel When Suspended in Appropriate Solvent and Heated to Boiling	Passes

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

Biological Specifications:

Test Concentration: 10.0 g/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
This product is commonly used as a means of support in plant tissue culture. It is tested with two or more plant cell lines to ensure proper gelling and that there are no phytotoxic impurities that would cause morphological aberrations in plants.	Tobacco Callus	Passes
	Sugar Cane	Passes

The material described in this certificate is derived from marine algae (seaweed). 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: February 2024

Gary Seckinger, Ph.D.

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***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

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Created on 10 March 2016 JN