

CERTIFICATE OF ANALYSIS

Product Description CARRAGEENAN
 GELCARIN GP 812® ; IRISH MOSS
Product Number C257
Lot Number 08F25712
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)	6.75 – 9.75	8.79
Physical Appearance Color*	AC-4, HC-3, HC-32, HC-39, or HC-174	HC-32 Tan
Texture	Fine Powder	Fine Powder
Solution Appearance After Heating Clarity Color	Clear to Slightly Hazy Tan to Light Brown	Clear Light Brown
Gel Formation	Forms Gel When Suspended in Appropriate Solvent and Heated to Boiling	Passes
Moisture %	0.0-12.0%	8.0%

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

Biological Specifications:

Test Concentration: 10 g/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
This product is commonly used as a means of support in plant tissue culture. This product is tested with two or more plant cell lines to ensure proper gelling, support, and that there are no phytotoxic effects.	Potato	Passes
	Hosta	Passes

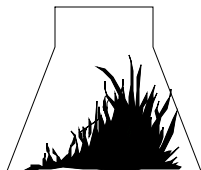
The material described in this certificate was manufactured in the United States of America and is plant-derived in nature. No animal-derived components were used in the manufacture of this product.

Phyto Technology 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. 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 2013



Scott Stewart, Ph.D.



PhytoTechnology
Laboratories, LLC
Dedicated to Growth

PhytoTechnology Laboratories, LLC

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>

Created on 24 Jul 2008