

# CERTIFICATE OF ANALYSIS

Product Description GELLAN GUM POWDER  
CULTUREGEL™ TYPE I – BIOTECH GRADE  
Product Number G434  
Lot Number 08L43418  
Storage Temperature Room Temperature  
CAS Number 71010-52-1

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Partially Soluble to Soluble in Water Heated to Boiling	Passes – Soluble
pH (2.00 g/L)	5.5 – 7.5	6.09
Physical Appearance Color*	2143-70 to 2154-70 or RM-1 to RM-4	2146-70 Off-White
Texture	Fine to Coarse Powder	Fine Powder
Solution Appearance After Heating in Medium Clarity Color	Clear to Slightly Hazy Colorless to Milky White	Slightly Hazy Milky White
Insolubles	None to Slight	Passes – None
Gel Strength	Minimum 800 g/cm <sup>2</sup>	960 g/cm <sup>2</sup>
Transparency	Minimum 80%	83.6%
Gel Formation	Forms Gel When Suspended in Medium and Autoclaved	Passes

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

## Biological Testing:

Test Concentration: 2.0 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 and that no phytotoxic impurities are present that would produce abnormal morphological plant development.	Asparagus	Passes
	Syngonium	Passes

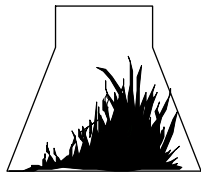
The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

**PhytoTechnology 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. PhytoTechnology 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: November 2013



Gary Seckinger, Ph.D.



PhytoTechnology  
Laboratories, LLC  
Dedicated to Growth

### **PhytoTechnology Laboratories, LLC**

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