

# CERTIFICATE OF ANALYSIS

Product Description GELLAN GUM POWDER  
CULTUREGEL™ TYPE I – BIOTECH GRADE  
Product Number G434  
Lot Number HWY0434052  
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
pH (2.00 g/L)	5.5 – 7.5	6.3
Physical Appearance Color*	2143-70 to 2154-70 or PM-1 to PM-3, PM-19	2154-70 Cream
Texture	Fine to Coarse Powder	Fine Powder
Solution Appearance After Heating in Water Clarity Color	Clear to Slightly Hazy Colorless	Slightly Hazy Colorless
Insolubles	None to Slight	Passes- Slight
Gel Strength	Minimum 800 g/cm <sup>2</sup>	1592 g/cm <sup>2</sup>
Transparency	Minimum 82%	83.6%
Gel Formation	Forms Gel When Suspended in Medium and Autoclaved	Passes
Compression Break Force Test	Force Gauge Measurement (g/cm <sup>2</sup> ) For Information Only	33.6 g/cm <sup>2</sup>

\* 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.	Tobacco Callus	Passes
	Ajuga	Passes

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

**PhytoTech Labs Inc. provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTech Labs Inc. 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.**

Product Release Date: 9-July-2021

Recommended Shelf Life Date: July 2029



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