

# CERTIFICATE OF ANALYSIS

Product Description GELLAN GUM POWDER  
CULTUREGEL™ TYPE I – BIOTECH GRADE  
Product Number G434  
Lot Number AMR0434047  
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	7.0
Physical Appearance Color*	2143-70 to 2154-70 or PM-1 to PM-3, PM-19	2143-70 Light 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>	1415 g/cm <sup>2</sup>
Transparency	Minimum 82%	82.50%
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	58.4 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.	Coreopsis	Passes
	Kalanchoe	Passes

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

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Recommended Shelf Life Date: January 2027



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