

# CERTIFICATE OF ANALYSIS

Product Description      GELZAN™  
 Product Number        G3251  
 Lot Number                15L3251051  
 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)	4.0-6.5	5.2
Physical Appearance Color* Texture	2143-70 to 2154-70 or PM-1 to PM-3, PM-19 Fine to Coarse Powder	2153-70 Light Tan Fine Powder
Solution Appearance After Heating in Water Clarity Color	Clear to Slightly Hazy Colorless to Slight Yellow Tint	Slightly Hazy Slight Yellow Tint
Insolubles	None to Slight	Passes-Slight
Gel Strength	Minimum 400 g/cm <sup>2</sup>	523 g/cm <sup>2</sup>
Transmittance	Minimum 85%	87%
Loss on Drying	For Information Only	4.8%
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.	Tobacco Callus	Passes
	Coreopsis	Passes

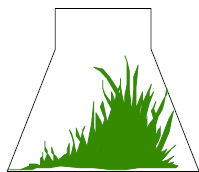
The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

**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: November 2023



Gary Seckinger, Ph.D.



PhytoTechnology  
Laboratories®  
Dedicated to Growth

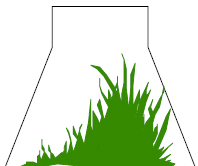
### PhytoTechnology Laboratories®

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Created on 17 December 2015 JN

Gelzan™ is a trademarked product of CP Kelco®



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