

# CERTIFICATE OF ANALYSIS

Product Description GELZAN™  
Product Number G3251  
Lot Number AWK3251077  
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	5.9
Physical Appearance Color*	2143-70 to 2154-70 or PM-1 to PM-3, PM-19	2153-70 Light Cream
Texture	Fine to Coarse Powder	Fine Powder
Solution Appearance After Heating in Water Clarity Color	Clear to Slightly Hazy Colorless to Slight Yellow Tint	Clear Colorless
Insolubles	None to Slight	Passes- None
Gel Strength	Minimum 400 g/cm <sup>2</sup>	654 g/cm <sup>2</sup>
Transmittance	Minimum 80%	96%
Loss on Drying	For Information Only	4.3
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	68.8 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.	Kalanchoe	Passes
	Tobacco Callus	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.**

Date of Release: 3-July-2019

Recommended Shelf Life Date: July-2027



David S. Hart  
Technical Services Manager

Gelzan™ is a trademarked product of CP Kelco®

**PhytoTech Labs Inc.**  
14610 W 106<sup>TH</sup> St. Lenexa, KS 66215  
Phone: 1-888-749-8682 or 1-913-341-5343  
Fax: 1-888-449-8682 or 1-913-341-5442  
Phytotechlab.com