CERTIFICATE OF ANALYSIS

 $Gelzan^{TM}$ **Product Description** Product Number G3251

Lot Number SYS3251065 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	4.9
Physical Appearance		
Color*	2143-70 to 2154-70 or	
	PM-1 to PM-3, PM-19	2154-70 Slight Yellow Tint
Texture	Fine to Coarse Powder	Fine Powder
Solution Appearance		
After Heating in Water		
Clarity	Clear to Slightly Hazy	Clear
Color	Colorless to Slight Yellow Tint	Colorless
Insolubles	None to Slight	Passes
Gel Strength	Minimum 400 g/cm ²	460 g/cm ²
Transmittance	Minimum 80%	81%
Loss on Drying	For Information Only	3.3%
Gel Formation	Forms Gel When Suspended in Medium and Autoclaved	Passes
Compression Break Force Test	Force Gauge Measurement (g/cm ²⁾ For Information Only	166 g/cm ²

^{*} Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color PreviewTM).

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	Sugar Cane	Passes
or more plant cell lines to ensure proper gelling and that no phytotoxic impurities are present that would produce abnormal morphological plant development.	Begonia	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.

Date of Release: 8-January-2018

Recommended Shelf Life Date: January-2026

David S. Hart Technical Director

Gelzan™ is a trademarked product of CP Kelco®

PhytoTechnology Laboratories®

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