

# CERTIFICATE OF ANALYSIS

Product Description GELZAN™  
Product Number G3251  
Lot Number HCX3251102  
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	5.6
Physical Appearance Color*  Texture	2143-70 to 2154-70 or PM-1 to PM-3, PM-19 Fine to Coarse Powder	2143-70 White Fine Powder
Solution Appearance After Heating in Water Clarity Color	Clear to Slightly Hazy Colorless to Slight Yellow Tint	Clear Slight Yellow Tint
Insolubles	None to Slight	Passes
Gel Strength	Minimum 400 g/cm <sup>2</sup>	515 g/cm <sup>2</sup>
Transmittance	Minimum 80%	93%
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	31.2 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.	Perilla Fantasy	Passes
	Xanthi 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.

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Date of Release: 24-March-2022

Recommended Shelf Life Date: March 2030



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Gelzan™ is a trademarked product of CP Kelco®

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