

# CERTIFICATE OF ANALYSIS

Product Description GELZAN™  
Product Number G3251  
Lot Number HMW3251116  
Storage Temperature Room Temperature  
CAS Number 71010-52-1

## **Physiochemical Specifications:**

TEST	SPECIFICATION	RESULTS
Solubility	Fully Dissolved in Water Post Autoclaving For A Minimum of 15 min	Passes
pH (2.00 g/L)	4.0 – 6.5	5.3
Physical Appearance Color*	2143-70 to 2154-70 or PM-1 to PM-3, PM-19	2145-70 Off-White
Texture	Fine to Coarse Powder	Fine Powder
Solution Appearance After Heating in Water Clarity Color	Clear to Slightly Hazy Colorless to Slight Yellow Tint	Slightly Hazy Colorless
Insolubles	None to Slight	Passes- Slight
Gel Strength	Minimum 400 g/cm <sup>2</sup>	464 g/cm <sup>2</sup>
Transmittance	Minimum 80%	87%
Gel Formation	Forms Gel Following Autoclaving For A Minimum of 15 min	Passes
Compression Break Force Test	Force Gauge Measurement (g/cm <sup>2</sup> ) For Information Only	19.6 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.	Parrot Feather	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.

**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: 17-January-2024

Recommended Shelf-Life Date: January 2032



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