

CERTIFICATE OF ANALYSIS

Product Description GELZAN™
Product Number G3251
Lot Number HTX3251109
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	5.5
Physical Appearance Color*	2143-70 to 2154-70 or PM-1 to PM-3, PM-19	2153-70 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
Gel Strength	Minimum 400 g/cm ²	432 g/cm ²
Transmittance	Minimum 80%	90%
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.	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: 27-December-2022

Recommended Shelf-Life Date: December 2030



David Hart
Technical Director

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