

# CERTIFICATE OF ANALYSIS

Product Description GELZAN™  
Product Number G3251  
Lot Number AAR3251069  
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<br>Color*                                     | 2143-70 to 2154-70 or<br>PM-1 to PM-3, PM-19                         | 2153-70 Light Cream        |
| Texture   | Fine to Coarse Powder  | Fine Powder                |
| Solution Appearance<br>After Heating in Water<br>Clarity<br>Color | Clear to Slightly Hazy<br>Colorless to Slight Yellow Tint            | Slightly Hazy<br>Colorless |
| Insolubles  | None to Slight   | Passes-None                |
| Gel Strength  | Minimum 400 g/cm <sup>2</sup>  | 528 g/cm <sup>2</sup>      |
| Transmittance   | Minimum 80%  | 91%                        |
| Loss on Drying  | For Information Only   | 6.1%                       |
| Gel Formation   | Forms Gel When Suspended in<br>Medium and Autoclaved                 | Passes                     |
| Compression Break Force Test                                      | Force Gauge Measurement (g/cm <sup>2</sup> )<br>For Information Only | 72 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. | Echinacea       | Passes  |
|   | Coreopsis       | Passes  |

The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

**PhytoTechnology 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. **PhytoTechnology 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.

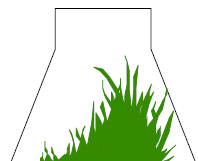
Date of Release: 25-June-2018

Recommended Shelf Life Date: June-2026



David S. Hart  
Technical Director

Gelzan™ is a trademarked product of CP Kelco®



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Dedicated to Growth

### **PhytoTechnology Laboratories®**

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