

CERTIFICATE OF ANALYSIS

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|---------------------|------------------|
| Product Description | GELZAN™ |
| Product Number | G3251 |
| Lot Number | 14J3251040 |
| 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-Soluble |
| pH (2.00 g/L) | Under Development | 5.7 |
| Physical Appearance | | |
| Color* | 2143-70 to 2154-70 or PM-1 to PM-3, PM-19 | 2154-70 Cream |
| 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-None |
| Gel Strength | Minimum 400 g/cm ² | 444 g/cm ² |
| Transmittance | Minimum 85% | 92% |
| Loss on Drying | For Information Only | 5.3% |
| 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. | Hosta | Passes |
| | Boston Fern | Passes |

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

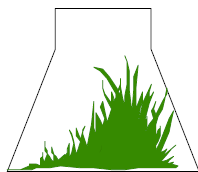
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Recommended Shelf Life Date: September 2022



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Gelzan™ is a trademarked product of CP Kelco®



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