CERTIFICATE OF ANALYSIS

Product Description GELZANTM
Product Number G3251

Lot Number HGX3251107 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 | 5.2 |
| Physical Appearance | | |
| Color* | 2143-70 to 2154-70 or | |
| | PM-1 to PM-3, PM-19 | 2148-70 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 | Slight Yellow Tint |
| Insolubles | None to Slight | Passes |
| Gel Strength | Minimum 400 g/cm ² | 496 g/cm ² |
| Transmittance | Minimum 80% | 91% |
| 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 PreviewTM).

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 | Perilla Fantasy | Passes |
| or more plant cell lines to ensure proper gelling and that no phytotoxic impurities are present that would produce abnormal morphological plant development. | 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: 30-September-2022

Recommended Shelf Life Date: September 2030

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