



# CERTIFICATE OF ANALYSIS

Produced & Bottled in the District of Columbia, United States of America; **January 2024**

## Gellan Gum

**Product Description** : Gellan Gum  
**Product Number** : GG100, GG500, GG1000, GG5000  
**Batch Number** : MH/PQ/23/C/92  
**CAS Number** : 71010-52-1

## Storage Conditions

**Manufacture Date** : March 2023  
**Expiry Date** : February 2025  
**Storage Temperature** : 20-22 °C

## Specifications

**Appearance Colour** : White to Off-White  
**Appearance Form** : Fine to Coarse Powder  
**Solubility** : Soluble in water heated to boiling  
**Solution Appearance After Heating** : Clear, Colorless to Slightly Hazy  
**Insolubles** : None to Slight  
**Gel Formation** : Forms Gel when suspended in solvent and heated to boiling

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and or facilitates proper gelling, support, and no phytotoxic impurities in two or more plant tissue cultured lines with no morphological aberrations to plants.	Mostera	PASSES
	Philodendron	PASSES

## Analysis Results

Parameters	Limits	Results
Characteristics	Off white, free flowing powder.	Conforms.
Gellan Gum Content	85-108%	99.4%
Loss On Drying	≤ 15%	9.5%
Particle Size	≥ 95% pass through 60 mesh	99.2%
Transparency	≥ 85%	87.3%
Gel Strength	≥ 900 g/cm <sup>2</sup>	970 gm/cm <sup>2</sup>
pH	5-7	6.5
Ash	≤ 15.0%	10.5
Turbidity	< 10 NTU	8.2 NTU
Heavy Metal	< 20 ppm	< 20 ppm
Lead	≤ 3 ppm	< 3 ppm
Arsenic	≤ 2 ppm	< 2 ppm
Mercury	≤ 1 ppm	< 1 ppm
Cadmium	≤ 1 ppm	< 1 ppm
Isopropyl Alcohol	≤ 0.075%	< 0.075%
Total Plate Count	< 1000 CFU-GM	< 1000 CFU-GM
Yeast and Molds	< 2000 CFU-GM	< 2000 CFU-GM
Salmonella	Absent	Absent
E.Coli	Absent	Absent

Plant Cell Technology provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained plant tissue culturist. Plant Cell Technology 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.



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Francisco Palacios  
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