



Plant Tissue Culture



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# Gellan Gum

## Plant Gel

### Company Profile

Established in 1982 Marine Hydrocolloids is India's largest manufacturer and exporter of Agar Agar Food grade (Powder & Strips), and also offers Spreadable Agar Agar branded as Wondergel, Carrageenan and Alginates. We offer different grades of these products to cater to industries ranging from Food, Confectionery, Bakery, Dairy to Cosmetics, Personal Care, Plant Tissue Culture, Dehydrated Culture Media, Microbiology, Dental Castings and Pharmaceuticals.



Suspension Beverages

Air Freshener



Marine Hydrocolloids' Gellan Gum popularly known as Plant Gel is a High Molecular weight polysaccharide gum produced by the fermentation of a carbohydrate with pseudomonas elodea, purified, dried and powdered. Plant Gel gelation is promoted by Calcium chloride (fused).

Gellan Gum is used as a gelling agent in microbiological culture and plant tissue culture. With prominent gelling property it is widely used in Food and Beverage industry, Pharmaceuticals, Personal Care, Cosmetics and Home Care industries.

## Types of Gellan Gum

Gellan Gum is characterized into two depending on number of acetate groups attached to the polymer.

- Low Acyl Gellan Gum - Firm Form, Non Elastic, Brittle Gels
- High Acyl Gellan Gum - Soft Form, Elastic Gels

## Properties

- Melts at 80 °C to 90 °C.
- Gels at 35 °C to 40 °C.
- pH tolerant from 3 to 10.
- High transparency.
- Good taste-releasing
- Low dosage & Good Compatibility
- Excellent thermal and Acid stabilizer
- Adjustable gel elasticity and rigidity

## Applications

Suspension Beverages, Plant Tissue Culture, Jelly, Baked Products, Frosting, Jams, Sugar Coating, Synthetic Food, Eye Drops, Soft and Hard Capsules, Skin Care Products, Fertilizer Gel, Air Freshener Gels, Tooth Paste, Pet Food etc.



Personal Care



Soft Gel Capsules



Fertiliser Gel



Tooth Paste

## Packaging

1-5, 10, 15, 20, 25 Kg  
Corrugated Cartons  
25 Kg Fiber Board Drum  
100 gm & 500 gm Metal Containers

## Storage

Store in a cool and dry place.  
Keep away from moisture.  
Keep the packet tightly closed after use.  
Shelf life: 2 years



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