

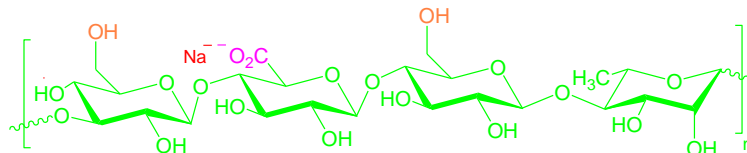
Product Information

Gellan Gum

Product Number: 501010

Synonyms

Sodium Gellan Gum



Specifications

CAS Number: 71010-52-1

M.F. (Repeat Unit): C₁₄O₁₂H₂₁Na

M.W. (Repeat Unit): 404.30 g.mol⁻¹

Molecular Weight: 1,000 kg/mol

Appearance (Form): Powder

Appearance (Color): White to Light Yellow

Store: Room Temperature

Infrared Spectrum: Conforms to Structure

Purity (Titration): ≥ 98 %

pH: 6 – 7 (c = 10 mg.mL⁻¹; Water)

Solubility (water): up to c = 30 mg.mL⁻¹

Solubility (Color): Clear to Yellow

Description

Gellan gum is a high molecular weight polysaccharide gum produced by a pure culture fermentation of a carbohydrate by *Pseudomonas elodea*. The high molecular weight polysaccharide is principally composed of a tetrasaccharide repeating unit of one rhamnose, one glucuronic acid, and two glucose units, and is substituted with acyl (glyceryl and acetyl) groups as the O-glycosidically-linked esters.

Precautions

For laboratory and research use. Not for drug, household or other uses.

Stability

Gellan Gum is stable for at least 6 months at room temperature. Storage its stock powder at elevated temperature for more than 2 weeks may cause decomposition and yield incorrect results.

Applications

Gellan Gum can be used in tissue engineering, drug delivery and 3D printing. It is recommended as a gelling agent for use in place of agar in microbiological media. Gellan gum is used in a wide variety of immobilization matrices.

Packaging

1 and 5 g in plastic bottle

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