

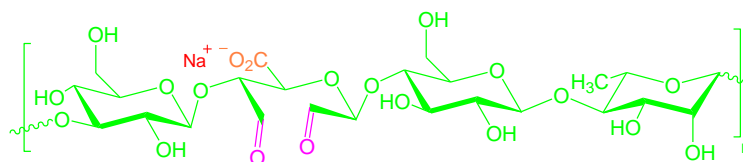
# Product Information

## Gellan Dialdehyde

**Product Number: 502300**

### Synonyms

Oxidized Gellan  
Sodium Gellan Oxide



### Specifications

CAS Number: -

M.F. (Repeat Unit):  $C_{14}O_{12}H_{21}Na$

M.W. (Repeat Unit):  $402.30 \text{ g}\cdot\text{mol}^{-1}$

Molecular Weight: 1,000 kg/mol

Appearance (Form): Powder

Appearance (Color): White to Light Yellow

Store:  $-4 \text{ }^{\circ}\text{C}$

Infrared Spectrum: Conforms to Structure

Purity (Titration):  $\geq 98 \%$

Degree of Substitution: 0 – 6%

pH: 6 – 7 ( $c = 10 \text{ mg}\cdot\text{mL}^{-1}$ ; Water)

Solubility (water): up to  $c = 60 \text{ mg}\cdot\text{mL}^{-1}$

Solubility (Color): Clear to Yellow

### Description

Gellan Gum (GG) is a high molecular weight polysaccharide gum produced by a pure culture fermentation of a carbohydrate by *Pseudomonas elodea*. Gellan is a biodegradable biopolymer, however, its dialdehyde derivative, i.e. Gellan Dialdehyde, shows significantly faster biodegradation.

### Applications

Gellan Dialdehyde can be used in tissue engineering, drug delivery and 3D printing. Also, it can be used as a green crosslinker for amine- and hydrazine-based chemicals.

### Precautions

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

### Stability

Gellan Dialdehyde is stable for at least 3 months at  $-4 \text{ }^{\circ}\text{C}$ . Storage of its stock powder at high temperature for more than 1 week may cause decomposition and yield incorrect results.

### Packaging

1 and 5 g in plastic bottle

# Product Information