



Gelling Agent for Plant Study

Gellan Gum

Gellan Gum is a gelling agent used for plant tissue and cell culture. It produces a high transparent gel, which allows better observation of root growth compared with conventional agar gel.

Features

- ▶ **High Transparency**

Comparison Data with Agar Gel

■ Root growth observation

Seeds of Komatsuna (*Brassica rapa* var. *perviridis*) were inoculated in petri dishes containing a MS medium with either 0.8% agar or 0.2% Gellan Gum under sterile conditions. The seedlings were transferred to plant boxes containing the same medium 5 days later.

0.8% Agar Gel



0.2% Gellan Gum



These photos were taken on the 6th day.
Temperature: 27 C
Light Period: 13 hours
Dark Period: 11 hours

Application 1 : Culture of Rice (*Oryza sativa*)

■ The same growth rate as Agar gel

Seeds of Rice (*Oryza sativa*) were inoculated in petri dishes containing a MS medium with either 0.8% of agar or 0.2% of Gellan gum under sterile conditions .

0.8% Agar Gel



0.2% Gellan Gum



These photos were taken on the 6th day.
Temperature: 27 °C
Light Period: 13 hours
Dark Period: 11 hours

Application 2: Culture of Komatsuna (*Brassica rapa* var. *perviridis*)

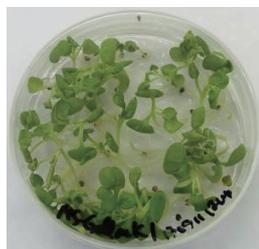
■ The same growth rate as Agar gel

Seeds of Komatsuna (*Brassica rapa* var. *perviridis*) were inoculated in petri dishes containing a MS medium with either 0.8% agar or 0.2% Gellan gum under sterile conditions.

0.8% Agar Gel



0.2% Gellan Gum



These photos were taken on the 9th day.
Temperature: 27 °C
Light Period: 13 hours
Dark Period: 11 hours

Specification

Passing Rate (5g/l gel, 490 nm) %	more than 70%
Loss on drying %	less than 15.0%
pH (3g/l, suspension, 25 °C)	4.5-6.5

Ordering Information

Product Name	Grade	Storage	Product No.	PKG Size
Gellan Gum	SP	RT	12389-96	50 G
			12389-54	250 G

Related Products

Product Name	Grade	Storage	Product No.	PKG Size
6-Benzyladenine	GR	RT	06399-01	1 g
2,4-Dichlorophenoxyacetic Acid	CP	RT	11831-22	25 g
Gibberellin A3	GR	RT	16627-04	100 mg
3-Indoleacetic Acid	GR	A	19119-61	1 g
3-Indolebutyric Acid	GR	A	19126-61	1 g
Kinetin	GR	R	19905-06	100 mg
Phenyl Acetate	GR	RT	26820-02	25 g
trans-Zeatin	GR	R	36835-96	10 mg

(Storage) RT : Room temperature, A :dark and cool , R : Refrigerator,

For research use only, not intended for diagnostic or drug use.

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