

Product Information Sheet

G3500

Gelling Agent Sample Pack

Sample Pack Contents:

- A111- Tissue Culture Grade Agar: 9g
- A175- Purified Agar: 8g
- A133- Agargellan™: 5g
- C2000- Carrageenan: 10 g
- G3251- Gelzan™: 2g

Details:

- **A111- Tissue Culture Grade Agar:** The most common gelling agent used in plant tissue culture. Gel Strength: ≥ 900 (typically 900-1100) g/cm². It is used at a wide range of concentrations from 6 g/L for a slightly firm gel to 10 g/L for a brick-like gel; however, 6-8 g/L is the more commonly used range. It is derived from red seaweeds in the genus *Gracilaria*.
- **A175- Purified Agar:** The most common gelling agent used in plant tissue culture. Gel Strength: 700-1100 g/cm². It is used at a wide range of concentrations from 6 g/L for a slightly firm gel to 10 g/L for a brick-like gel; however, 6-8 g/L is the more commonly used range. It is derived from red seaweeds in the genus *Gelidium*.
- **A133- Agargellan™:** A proprietary blend of agar and gellan gum. Not recommended for use with media with high calcium concentrations, such as DKW or Quoirin & Lepoivre Medium, as gelling ability will be affected. It is typically used at a concentration of 3.5 – 5.0 g/L for tissue culture.
- **C2000- Carrageenan:** Typically used at a wide range of concentrations from 6 to 10 g/L. Should be the last component added as the medium will become viscous, since carrageenan is a water-soluble polymer. Carrageenan should also be added slowly to an agitated medium to help prevent clumping. A lumpy suspension of carrageenan will not dissolve uniformly when autoclaved.
- **G3251- Gelzan™:** A gellan gum that is sometimes referred to as “Gelrite™” by some suppliers. However, Gelrite™ is no longer produced, and this product has a lower gel strength than the original Gelrite™. Gellan gum is produced by bacterial fermentation from a pure culture of *Sphingomonas elodea*. It is typically used at a concentration of 2-4 g/L for tissue culture. Gelzan™ is a trademarked product of CP Kelco U.S., Inc. Not recommended for use with high-calcium media such as DKW or Quoirin & LePoivre.

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