



Product Information Sheet

C2000

Carrageenan, High Clarity

Synonym: Irish Moss; Kappa-Type Carrageenan
CAS: 9000-07-1

Properties

Form: Powder
Appearance: Off-White to Cream
Application: Plant Tissue Culture Gelling Agent
Solubility: Partially Soluble in Cold Water; Soluble in Boiling Water
Typical Working Concentration: 6 to 10 g/L
Storage Temp: Room Temperature
Other Notes: Plant Tissue Culture Tested

Application Notes

When carrageenan is dissolved properly, it will produce a rigid gel. Carrageenan is typically used at a wide range of concentrations from 6 g/L to 10 g/L. It is suspended in a medium that is at room temperature or colder like agar. Carrageenan should be added last since the medium will become viscous, as carrageenan is a water-soluble polymer; the viscosity of carrageenan increases with concentration and decreases with temperature. Moreover, carrageenan should also be added slowly to an agitated medium to help prevent clumping of the carrageenan and to create a uniform suspension. A lumpy suspension of carrageenan will not dissolve uniformly when autoclaved. Next, the pH of the medium should be adjusted. After autoclaving, stir the medium to distribute the melted carrageenan uniformly into the solution.

PhytoTechnology Laboratories® offers two kappa-carrageenans, C257 and C2000. The product C257 is Gelcarin GP 812® which is a registered trademark of FMC BioPolymer.

Please Note: While *PhytoTechnology Laboratories®* tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications of use.

References

1. *Merck* 13, 1878

PhytoTechnology Laboratories®

P.O. Box 12205; Shawnee Mission, KS 66282-2205

Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442

Web Site: www.phytotechlab.com

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