

Carrageenan, High Clarity

Product ID: **C2000**

Introduction

Description: Kappa-type carrageenan gelling agent, Irish moss

Product Information

Solubility	Heated to Boiling Water
Physical Form	Solid
Storage Temp.	Room Temperature
Other Notes	Plant Tissue Culture Tested
UPC / SKU	C2000
CAS NUMBER	9000-07-1
Gelling Strength	> 800 g/cm ²



C2000 Carrageenan, High Clarity

Synonyms: 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

Other Notes: Plant Tissue Culture Tested

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

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ISO Certifications: [ISO 9001:2008 \(QMS\)](#) | [ISO 10002:2014](#)