



## Product Information Sheet

### **A175** **Agar, TC** **Purified Grade - Gelidium**

Synonym: Agar-Agar, Gum Agar  
CAS: 9002-18-0

#### **Properties**

Form: Powder  
Appearance: Off-white to Cream  
Application: Gelling Agent  
Solubility: Partially Soluble in Cold Water; Soluble in Boiling Water  
Typical Working Concentration: 6 to 10 grams per liter  
Storage Temp: Room Temperature  
Other Notes: Gel Strength: 700-1100 g/cm<sup>2</sup>  
Ash Content: <2.0%  
Plant Tissue Culture Tested

#### **Application Notes**

Agar is produced from a family of red seaweeds (*Rhodophyceae*) primarily from two genera, *Gelidium* and *Gracilaria*. Agar is a mixture of agarose and agarpectin. Product A175 is produced from *Gelidium* and typically has higher gel strength than those produced from *Gracilaria*.<sup>2</sup>

Agar is by far the most common gelling agent used in plant tissue culture. 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.

PhytoTechnology Laboratories® also carries agar produced from *Gracilaria*, Product No. [A111](#).

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 that are being used.

#### **References**

1. *Merck* **13**, 184
2. McHugh, D.J. (2003). A guide to the seaweed industry. FAO Fisheries Technical Paper 441, Food and Agriculture Organization of the United Nations, Rome.

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