

PureGel PTC

Plant Tissue Culture Tested

Cat. No: PG-1011

1. GENERAL DESCRIPTION

PureGel PTC is a complex polysaccharide extracted from the red seaweed, genus Gelidium.

PureGel PTC meets the specifications of the U.S. Food Chemical Codex (FCC) as well as the Directive of the European Community (EEC).

2. APPLICATIONS

PureGel PTC is the gelling agent used in plant tissue culture. It is used at a wide range of concentrations being the most popular range from 6 to 10 g/L. This agar has been purified and designed to meet the needs of plant tissue culture procedures.

PureGel PTC once dissolved and upon cooling to 34 – 36 °C it will be a gel, remaining in that state at temperatures as high as 65°C. Agar will melt at approximately 85 – 90 °C. This property is known as hysteresis.

3. CHARACTERISTICS

PHYSICAL & CHEMICAL PARAMETERS

Color:..... White to pale brown
 Particle size:95 % through 60 mesh U.S. standard sieve
 Loss on drying : ≤16 %
 Total Ash: ≤ 6.5 %
 pH (1.5 %): 6.5 -7.5
 Water gel strength **: ≥ 900 g/cm²
 (Nikan method at 1.5 % at 20 °C)
 Gel point (1.5 %) : 34 -38 °C
 Melting point (1.5 %) : 85 -90 °C
 Transparency (1.5%): ≤ 15 NTU
 Colorimetry (450 mm): ≤ 0.250