PRODUCT INFORMATION

CleriGel® Super

Plant Culture Tested

Product Code: PCT0906

Gellan gum
CAS No: 71010 - 52 -1
Synonym : Gellan gum

Product Description :

Gelling agents play a key role in solidification of media in plant tissue culture. Choice of gelling agent can influence growth of the tissue in media.

CleriGel®, an agar substitute is a purified, natural anionic heteropolysaccharide produced from a bacterial substrate composed of glucuronic acid, rhamnose and glucose. It produces a clear, colorless gel with high strength which aids in visual detection of rooting pattern in the plants.

CleriGel® produces agar like gels at approximately half the use required quantity of agar, in the presence of soluble salts.Unlike agar, gel strength of CleriGel®, is not affected over a wide range of pH and is free of phenolic contaminants. It is chemically inert to most of the biological growth additives. Moreover, microbial contamination is easily detected with CleriGel® at an early stage as compared to agar.

Note:

• CleriGel® Super is recommended for the commercial applications as it is cost effective and yields excellent results.
• Forms a firm transparent gel at a concentration of 1.8 - 2.5g/l depending on the type of plant species.

Directions :

• For Plant tissue culture applications, CleriGel® can be used only in a medium containing divalent cations like Ca^{2+} and Mg^{2+} as cations are essential in formation of gel matrix.
• CleriGel® should be added, after adjusting pH of the medium.
• In case of media with low cation formulations or hyperhydricity state, additional salts should be added or higher concentration of CleriGel® should be used to overcome excess availability of water and attain proper gelation.
• CleriGel® Super should be added slowly with constant stirring to the luke warm medium, to avoid lump formation prior to autoclaving.

Quality Control:

Appearance
White to off-white colored, homogeneous, free flowing powder.
Solubility
Clear to slightly hazy solution at 0.2 g in 100 ml water on boiling.
Clarity
Transparent gel is formed on cooling.
Transmittance
≥ 75 %
Loss on drying
<= 15.0%
Gelling strength
400 - 700 gm/cm²
Particle size (36 mesh)
≥ 95%
Plant Tissue Culture Test
Passes

Storage and Shelf Life:

• Store below 30^0C
• Use before expiry date as given on product label.

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