Plant Propagation Agar

Cat. 1812

Gelling agent for culture media.

Practical information

Industry: Ingredients for culture media

Principles and uses

Agar is a natural hydrocolloid extracted from several species of red algae, mainly the Gelidium, Gracilaria and Pterocladia types. This agar is impurity - free and recommended for the commercial micropropagation of ornamental, succulent and woody plant species as well as in vitro genetic engineering in the plant research field.

This agar has a very high gel strength, = 1.000 g/cm2 which allows usage at very low concentrations, in typical applications, ranging from 0,5 to 0,6% or higher concentrations when used with other hydrocolloids. The product is clear and exhibits excellent transparency aiding in identifying visual contamination by bacteria or molds that could interfere in the development of plant cultures.

Physical-chemical characteristics

Description	Specification
Loss on drying	<=16%
Ash	<=6,5%
Gel strength (Nikan method at 1,5% at 20ºC)	>900 g/cm2
Melting point (1.5%)	85 - 90 ºC
Particle size	>95 % 60 mesh
Gelling point (1.5%)	34 - 38 ºC
Color	White to clear brown
pH (1,5% solution)	6,0-7,5
Turbidity at 1,5% (NTU)	<15
Colorimetry (450 nm)	<0,250

Storage

Temp. Min.:2 ºC
Temp. Max.:25 ºC