VITRO AGAR

CAT Nº:1808

Agars

DESCRIPTION

Agar is a natural hydrocolloid extracted from several species of red algae, mainly the *Gelidium*, *Gracilaria* and *Pterocladia* types. This agar was developed especially for in vitro cell culture. Due to its physical-chemical characteristics (color, transparency, degree of purity) and, above all, its high gel strength (approximately 1000 g/cm2, which allows usage levels as low as 0.4 - 0.5%), this agar is recommended for micro propagation techniques (initiation, propagation, radiation, etc.). This product is strictly controlled and designed to give high yields in large industrial operations for growing tissue culture plants (ornamentals, horticulture, woody plants, etc.).

CHEMICAL CHARACTERISTICS

Appearance	White cream powder
Moisture	Less than 10%
Ashes	≤ 5 %
Gel strength (1.5%, Nikan)	≥ 950 g/cm2
pH (1 .5%) before autoclaving	6.00 – 7.50
pH (1.5%) after autoclaving	6.00 – 7.50
Melting point (1 .5%)	85 ± 5ºC
Gelling point (1.5%)	35 ± 5ºC
Transparency (1.5%)	≤ 40 NTU
Colorimetry (absorbance) 430 mm	≤ 0.300
Particle size	95% Over sieve 80

STORAGE

Once opened keep powdered medium closed to avoid hydration.

The dehydrated Vitro Agar should be homogeneous, free flowing and beige in color. If there are any changes physically, discard the product.

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