

# VITRO AGAR

Cat. 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/cm<sup>2</sup>) 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 5%
Ashes	≤ 6.5%
Gel strength (1.5%, Nikan)	≥ 1000 g/cm <sup>2</sup>
pH (1.5%) before autoclaving	7.2 ± 0.4
pH (1.5%) after autoclaving	7.0 ± 0.4
Melting point (1.5%)	85 ± 5°C
Gelling point (1.5%)	35 ± 3°C
Transparency (1.5%)	≤ 15 NTU
Colorimetry (absorbance) 430 mm	≤ 0.200
Particle size	95% Over sieve 80

## MICROBIOLOGICAL TEST

<i>Standard plate count</i>	Less than 3000/g
<i>Yeast and molds</i>	Less than 100/g
<i>Coliforms</i>	Less than 3/g
<i>E. coli</i>	Negative
<i>Salmonella</i>	Negative