

# EUROPEAN BACTERIOLOGICAL AGAR

Cat. 1800

Agars

## Description

Agar is a natural hydrocolloid extracted from several species of red algae, mainly the *Gelidium*, *Gracilaria* and *Pterocladia* types. European Bacteriological Agar is a gelling agent used in the preparation of culture media and other bacteriological applications. The main advantage of this agar is the absence of inhibitors, which could interfere in the microorganisms growth. It has excellent transparency, high hysteresis and very reliable reproducibility. Each batch produced is thoroughly tested for biological performance against a battery of known bacterial cultures in order to ensure proper growth characteristics and absence of inhibitors. European Agar type gives a higher gel strength than the American version. It is used in concentrations from 1.2% to 1.6%.

## CHEMICAL CHARACTERISTICS

Appearance	White cream powder
Moisture	Less than 10%
Ashes	≤ 4.5%
Gel strength (1.5%, Nikan)	800 - 1100 g/cm <sup>2</sup>
pH (1.5%) before autoclaving	7.0 ± 0.4
pH (1.5%) after autoclaving	6.5 ± 0.4
Melting point (1.5%)	85 ± 5°C
Gelling point (1.5%)	35 ± 3°C
Transparency (1.5%)	≤ 12 NTU
Colorimetry (absorbance) 430 nm	≤ 0.200
Particle size	95 % Over sieve 60

## 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