

# AMERICAN BACTERIOLOGICAL AGAR

Cat. 1802

Agars

## Description

Agar is a natural hydrocolloid extracted from several species of red algae, mainly the *Gelidium*, *Gracilaria* and *Pterocladia* types. American 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 growth of microorganisms. 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. American Agar type gives a lower strength than the European version. It is used in concentrations from 1.2% to 1.6%.

## CHEMICAL CHARACTERISTICS

Appearance	White cream powder
Moisture	Less than 10%
Ashes	≤ 6.5%
Gel strength (1.5%, Nikan)	600 - 750 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 mm	≤ 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