

EUROPEAN BACTERIOLOGICAL AGAR

CAT N°:1800 Agars

PREPARATION

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 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 to pale brown
Loss on drying	≤12%
Total Ash	≤5.0%
Water gel strength (Nikan method at 1,5 % at 20 °C)	800 – 1100 g/cm ²
pH (1.5%) before autoclaving	6.0-7.5
pH (1.5%) after autoclaving	6.0-7.5
Melting point (1.5%)	85 - 90 °C
Gelling point (1.5%)	34 – 38 °C
Transparency (1.5%)	≤ 8 NTU
Colorimetry before autoclaving (450 nm)	≤ 0.25
Colorimetry after autoclaving (450 nm)	≤ 0.30
Particle size	>95 % through 60 mesh ASTM

STORAGE

Once opened keep powdered medium closed to avoid hydration.



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