

American Bacteriological Agar

Gelling agent for culture media.

Cat. 1802

Practical information

Industry: Ingredients for culture media

Principles and uses

Bacteriological agar is a gelling agent used in the preparation of culture media and in other routine bacteriological applications. Its main advantage is the absence of inhibitors which could hinder optimal development of micro-organisms. In addition, bacteriological agar also possesses other attributes such as high transparency, high hysteresis and very reliable reproducibility. Bacteriological Agar American-type gives lower gel strength and is utilized at concentrations ranging from 1,2% to 1,6%. Each batch produced by us is thoroughly tested for biological performance against a battery of known bacterial cultures in order to ensure proper growth characteristics and absence of inhibitors. Also, other tests are carried out to be certain that each batch meets established physical and chemical specifications.

Physical-chemical characteristics

Description	Specification
Loss on drying	<=12%
Ash	<=6,5%
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
Turbidity before autoclaving (1,5%)	<=8NTU
Particle size	>95 % 60 mesh
Gelling point (1.5%)	34 - 38 °C
Colorimetry before autoclaving (450 nm)	<=0,25
Colorimetry after autoclaving (450 nm)	<=0,25
Turbidity after autoclaving (1,5 %)	<=8NTU
Gel strength before autoclaving (Nikan method at 1,5% at 20°C)	600-850g/cm ²
Gel strength after autoclaving (Nikan method at 1,5% at 20°C)	600-850 g/cm ²

Storage

Temp. Min.: 2 °C
Temp. Max.: 25 °C