

TECHNICAL DATA SHEET

Article No. 9972

Agar bacteriological, European type

SYNONYMS

-

SPECIFICATION

Gelling agent selected for solidifying microbiological culture media.

DESCRIPTION

Agar is the dried, hydrophilic, colloidal substance extracted from the algae known as Agarophytes (several species and genera of the Class Rodophyceae, mainly genera : Gelidium, Gracilaria, y Pterocladia). It consists of two polysaccharides, agarose and agaropectine, in a variable proportion depending on the geographical origin zone. The European Bacteriological Agar is a solidifying agent selected and prepared by mixing different agar from several geographical zones of origin and is especially recommended for gelling the microbiological culture media where a great transparency and brightness is required. European Agar type gives a higher gel strength than the American type. It is used in concentrations from 1,2%.

PHYSICO-CHEMICAL CHARACTERISTICS

PHYSICAL DATA

Melting point (1.5 %)	85 ±3 °C
Gelling point (1.5 %)	35 ±3 °C
Gel strength (1.5 %, Nikan)	800-1100 g/cm ²
Turbidity (1.5 %)	< 12 NTU

CHEMICAL DATA

pH (1,5 %) after autoclaving at 25°C	6.5 ±0.4
Loss on drying	< 10 % (w/w)
Ash	< 4.5 % (w/w)
Particle size 95 % over sieve	60 mm

Note: Data are average values which may vary from batch to batch.



MICROBIOLOGICAL LIMITS

Total aerobic microbial count	< 3.000 CFU/g
Coliforms	< 3 CFU/g
Moulds and yeasts	< 100 CFU/g
<i>Escherichia coli</i>	absent in 10 g
<i>Salmonella spp.</i>	absent in 25 g

STORAGE

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).

SHELF LIFE

4 years from date of production

updated: 21.04.2023

