

Specification

Nutrient rich medium, suitable for the isolation of pathogenic microorganisms from clinical specimens.

Formula * in g/L

Meat extract	10.00
Casein peptone	10.00
Sodium chloride	5.00
Agar	15.00

Final pH 7.3 ±0.2 at 25 °C

* Adjusted and /or supplemented as required to meet performance criteria

Directions

Suspend 40 g of powder in 950 mL of distilled water. Heat to the boiling point and distribute into suitable containers. Sterilize in the autoclave at 121°C for 15 minutes. Let it cool to 45-50°C and then add defibrinated blood in a proportion of about 5% or to the desired enrichment level.

Description

Blood Agar Base may be used for the cultivation of non fastidious microorganisms, since it has a balanced nutrient base. For fastidious microorganisms, it is advisable to add special enrichment supplements, such as ascitic liquid, egg yolk, etc...

This medium, with the addition of blood, is suitable for studies in haemolytic activity, but for the isolation of pathogens Blood Agar Base Columbia type (Art. No. DSHB3017) is recommended.

Quality control

Incubation temperature: 37 °C ± 1.0

Incubation time: 24-48 h

Inoculum: Practical range 100 ± 20 CFU. min. 50 CFU (productivity), according to ISO 11133:2014/Amd 1:2018. Spiral Plate Method. Micro AER. atmosf.

Microorganism

Growth

Remarks

<i>Staphylococcus aureus</i> ATCC® 6538	Productivity > 0.70	β-hemolysis
<i>Enterococcus faecalis</i> ATCC® 19433	Productivity > 0.70	γ-hemolysis
<i>Escherichia coli</i> ATCC® 8739	Productivity > 0.70	γ-hemolysis
<i>Streptococcus pyogenes</i> ATCC® 19615	Productivity > 0.70	β-hemolysis
<i>Streptococcus pneumoniae</i> ATCC® 49619	Productivity > 0.70	α-hemolysis
<i>Streptococcus agalactiae</i> ATCC® 12386	Productivity > 0.70	β-hemolysis

References

- ATLAS, R.M. and L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press, London.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.

Storage

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