

CM 22224 – BLOOD AGAR BASE (INFUSION AGAR)

INTENDED USE

For selective isolation of fastidious pathogenic microorganisms after addition of blood

PRODUCT SUMMARY AND EXPLANATION

Blood agar base (infusion agar) is used for isolation, cultivation of fastidious pathogenic microorganisms after addition of blood. This media can be used as general purpose media also, without blood addition. Blood agar base medium can also be used for primary isolation of *Haemophilus* species, where defibrinated sheep blood is used to enrich the medium. On addition of blood the pH value of 6.8 stabilizes and favours the formation of clear hemolysis zones. Fresh, defibrinated sheep blood is most suitable for detergent hemolysis forms. It gives best results for Group A *Streptococci*. But sheep blood fails to support growth of *Haemophilus haemolyticus* due to deficiency of pyridine nucleotides. However, addition of horse blood supports *H. haemolyticus* growth and haemolysis and the growing colonies mimic *Streptococcus pyogenes*.

COMPOSITION

Ingredients	Gms / Ltr
Brain Heart infusion, from	500.00
Agar	15.00
Tryptone	15.00
Sodium chloride	5.00

PRINCIPLE

Medium contains a rich nutrient base, which provides optimal growth conditions for all relevant microorganisms. Tryptone and Brain Heart infusion supplies amino acids, minerals and other essential growth factors in the medium for the growth of microorganisms. Sodium chloride maintains the osmotic balance of the medium. Agar is a solidifying agent.

INSTRUCTION FOR USE

Gently heat the vial with gentle swirling to melt the medium completely.
Cool to 45 - 50°C and aseptically add 5-7% (v/v) sterile defibrinated blood.
Mix properly and dispense sterile into Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	Basal medium: Light amber colour, clear to slightly opalescent gel After addition of blood: Cherry red colour, opaque gel
pH (at 25°C)	:7.3 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Haemolysis	Incubation Temperature	Incubation Period
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	≥70%	Beta	35-37°C	18-48 Hours



<i>Neisseria meningitidis</i>	13090	50-100	Luxuriant	>=70%	-	35-37°C	18-48 Hours
<i>Streptococcus pyogenes</i>	19615	50-100	Luxuriant	>=70%	Beta	35-37°C	18-48 Hours
<i>Streptococcus pneumoniae</i>	6303	50-100	Luxuriant	>=70%	Alpha	35-37°C	18-48 Hours
<i>Haemophilus influenza*</i>	35056	50-100	Luxuriant	>=70%	-	35-37°C	24-48 Hours
<i>Bacteroides fragilis*</i>	25285	50-100	Luxuriant	>=70%	Beta	35-37°C	24-48 Hours
<i>Clostridium perfringens*</i>	10543	50-100	Luxuriant	>=70%	Beta	35-37°C	24-48 Hours

PACKAGING:

Inpacksizeof10 ml X 25.

STORAGE




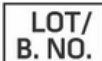








Ready-to-use media, store at 10-25°C and protect from direct Sunlight.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Brown, J.H. 1919. The use of blood agar for the study of streptococci. NY Monograph No. 9. The Rockefeller Institute for Medical Research.
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3. Snavely, J.G. and Brahier, J. 1960. Am. J. Clin. Pathol. **33**: 511-515.
4. Noble, W.C. 1962. J. Clin. Pathol. **15**: 552-568.
5. Hansen, N.H. 1962. J. Appl. Bacteriol. **25**: 46-53.
6. Hayes, P.R. 1963. J. Gen. Microbiol. **30**: 1-19.
7. US FDA. 1995. Bacteriological Analytical Manual, 8th Ed., AOAC International, Gaithersburg, MD.
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9. Murray, P.R., Baron, E.J., Pfaller, M.A., Jorgensen, J.H., Tenover, R.H., (Eds.). 2003. Manual of clinical microbiology, 8th ed. American Society for Microbiology, Washington, D.C.

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedNet GmbH Barkstrasse 10, 48143 Maastricht, Germany</small>	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For LabUse Only Revision:**

