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# Product Name : BLOOD AGAR BASE

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Basal medium for fastidious microorganisms isolation.

## TYPICAL FORMULA (g/l)

Beef Extract ..... 10.0  
Tryptose ..... 10.0  
Sodium Chloride ..... 5.0  
Agar ..... 15.0  
Final pH = 7.3 ± 0.2 at 25°C.

## DIRECTION

Suspend 40.0 g of powder in 1 liter of distilled or deionized water. Heat until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes. Cool to 45-50°C and aseptically add 5-7% sterile defibrinated sheep or horse blood. Mix well. Dispense in petri dishes.

## DESCRIPTION

BLOOD AGAR BASE is a general purpose medium that can be utilized as it is or with addition of substances as blood or serum, for cultivating fastidious microorganisms such as streptococci, pneumococci, meningococci.

## TECHNIQUE

Inoculate the medium with the specimen to examine spreading with a sterile loop and incubate at 36+/-1°C for 18-24 hours under aerobic or anaerobic conditions, depending on the case.

## QUALITY CONTROL

### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: tan.

### Prepared medium

Appearance: clear.

Color: cherry red.

Incubation conditions: 36+/-1°C / 24 hours / 5-10% CO<sub>2</sub>.

Microorganism	ATCC	Growth	Hemolysis
<i>Streptococcus pneumoniae</i>	6305	good	alpha
<i>Escherichia coli</i>	25922	good	
<i>Streptococcus pyogenes</i>	19615	good	beta
<i>Staphylococcus aureus</i>	25923	good	beta

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## PERFORMANCE AND LIMITATIONS

Enriched with 5-7% sterile sheep blood, BLOOD AGAR BASE is particularly suitable for the determination of haemolytic activity of streptococci, staphylococci and other microorganisms.

Blood Agar Base is intended for use with blood supplementation. Although certain diagnostic tests may be performed directly on this medium, biochemical and, if indicated, immunological testing using pure cultures are recommended for complete identification.

## STORAGE

The powder is very hygroscopic: store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared plates at 2-8°C.

## REFERENCES

1. Brown, J.H.. 1919. The use of blood agar for the study of streptococci, NY Monograph No. 9. In Rockefeller Institute for Medical Research.
2. Ruoff, K.L. 1995. Streptococcus, p. 299-305. Manual of clinical microbiology, 6th ed.
3. NCCLS document M22-A2, 1996. Approved Standard.

## PACKAGING

Cat. NO MB-B1005 BLOOD AGAR BASE	500g
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