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TECHNO PHARMCHEM

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Registered Off. : 101-A, Deep Enclave, Pocket "D", Ashok Vihar, Phase-III, Delhi-110 052 (India)
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Blood Agar Base (Infusion Agar)

Product Code : CM0133

Blood Agar Base is recommended as a base to which blood may be added for use in the isolation and cultivation of fastidious pathogenic microorganisms

Composition**

Ingredients	Gms / Litre
Agar	15.000
Peptone Bacteriological	10.000
Meat Extract	10.000
Sodium Chloride	5.000
Final pH (at 25°C)	7.3±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 40 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45 - 50°C and aseptically add 5% v/v sterile defibrinated blood. Mix well and pour into sterile Petri plates.

Principle And Interpretation

Blood Agar Base is a highly nutritious medium generally used as a basal medium for preparing blood agar by supplementation with blood. It can also be used as general purpose media without the addition of blood.

Peptone and Meat Extract provides carbon, nitrogen, amino acids and vitamins. Sodium chloride helps in maintaining the osmotic equilibrium of the medium. Addition of blood makes the medium more nutritious by providing additional growth factors required by fastidious organisms.

Quality Control

Appearance	:	Cream to yellow homogeneous free flowing powder
Gelling	:	Firm, comparable with 1.5% Agar gel
Colour and Clarity of prepared medium	:	
Basal medium	:	Light amber coloured clear to slightly opalescent gel.
	:	After addition of 5% v/v sterile defibrinated blood :
	:	Cherry red coloured opaque gel forms in Petri plates.
Reaction	:	Reaction of 4.0% w/v aqueous solution at 25°C.pH : 7.3±0.2
pH	:	7.10-7.50



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Cultural Response

Cultural characteristics observed with added 5% w/v sterile defibrinated blood, after an incubation at 35-37°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth w/o Blood	Recovery w/o blood	Growth w/blood	Recovery w/ blood	Hemolysis
Neisseria meningitidis ATCC 13090	50-100	fair	40-50%	luxuriant	>=70%	none
Staphylococcus aureus ATCC 25923	50-100	good	50-70%	luxuriant	>=70%	beta
Staphylococcus epidermidis ATCC 12228	50-100	good	50-70%	luxuriant	>=70%	none
Streptococcus pneumonia ATCC 6303	50-100	fair-good	40-50%	luxuriant	>=70%	alpha
Streptococcus pyogenes ATCC 19615	50-100	fair-good	40-50%	luxuriant	>=70%	beta

Storage and Shelf Life

Store below 30°C in a tightly closed container and the prepared medium at 2 - 8°C.
Use before expiry date on the label.