

**TECHNICAL SHEET**

<b>B014</b>	<b>BLOOD AGAR BASE (INFUSION AGAR) W/O BLOOD</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Meat heart peptone B#		10.00			
Tryptose		10.00			
Sodium chloride		5.00			
Agar		15.00			
#-Equivalent to Beef Heart peptone					
Final pH (at 25°C) : 7.3 ± 0.2					
<b>Directions :</b>					
Suspend 40.0 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.					
<b>Principle :</b>					
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. Meat heart peptone B and tryptose 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. It also helps in visualizing the haemolytic reactions. Hemolytic patterns may vary with the source of animal blood or type of base medium used.					
<b>QC Tests – (I)Dehydrated Medium</b>					
	Colour :	Cream to yellow			
	Appearance :	Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>					
	pH (post autoclaving/heating) :	7.3 ± 0.2			
	Colour (post autoclaving/heating) :	A) Basal medium : Light amber B) After addition of 5% sterile defibrinated blood: Cherry red.			
	Clarity (post autoclaving/heating) :	A : Clear to slightly opalescent B : Opaque			
<b>(III)Q.C. Test Microbiological</b>					
	Cultural characteristics observed with added 5% w/v sterile defibrinated blood, after an incubation at 35-37°C for 18-48 hours.				
	MICROORGANISM (ATCC )	GROWTH W/O BLOOD	GROWTH W/ BLOOD	HAEMOLYSIS	
	Neisseria meningitidis (13090)	Fair	Luxuriant	none	
	Staphylococcus aureus (25923)	Good	Luxuriant	beta	
	Staphylococcus epidermidis (12228)	Good	Luxuriant	none	
	Staphylococcus pneumoniae (6303)	Fair to good	Luxuriant	alpha	
	Streptococcus pyogenes (19615)	Fair to good	Luxuriant	beta	

Refer disclaimer Overleaf

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<b>Precautions :</b>	1. For Laboratory Use.				
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
	2. Blood Agar Base media are 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. Consult appropriate references for further information.				
	3. Hemolytic reactions of some strains of group D streptococci have been shown to be affected by differences in animal blood. Such strains are beta – hemolytic on horse, human and rabbit blood agar and alpha – hemolytic on sheep blood agar.				
	4. Colonies of Haemophilus haemolyticus are beta – hemolytic on horse and rabbit blood agar and must be distinguished from colonies of beta – hemolytic streptococci using other criteria. The use of sheep blood has been suggested to obviate this problem since sheep blood is deficient in pyridine nucleotides and does not support growth of H. haemolyticus.				
	5. Atmosphere of incubation has been shown to influence hemolytic reactions of beta – hemolytic streptococci. For optimal performance, incubated blood agar base media under increased CO <sub>2</sub> or anaerobic conditions.				
<b>Use :</b>	For isolation and cultivation of many fastidious pathogenic organisms like Neisseria, Streptococci etc after addition of blood.				
<b>Storage :</b>	Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
	40g/l	12.500L	7.3 ± 0.2	5% v/v sterile defibrinated blood.	121°C / 15 minutes

**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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