BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1420 BLOOD AGAR BASE NO.2							
Formula							
Ingredients :	gı	ms/lit.					
Peptone		15.00					
Liver extract		2.50					
Yeast extract		5.00					
Sodium chloride		5.00					
Agar		13.00					
Final pH (at 25°C) : 7.4 <u>+</u> 0.1							
Directions :							
Suspend 40.5 gms. in 1000 ml. di	stilled v	vater. Boil to dissol	ve the medium	complete	ely. Sterilize by		
autoclaving at 15 lbs pressure (121	°C) for	15 minutes. Cool t	o 45 – 50° C an	d aseptic	ally add 5-7 %		
sterile defribinated blood.							
Principle :							
•		narad using spacial	v colocted row m	atoriale t	to support good		
Blood Agar Base formulations have been prepared using specially selected raw materials to support good growth of a wide variety of fastidious microorganisms.							
Proteose Peptone is the nitrogen so			2 while Vesst	Extract a	and Liver Digest		
provide essential carbon, vitamin, r		-			-		
	-						
maintain osmotic balance and Agar a			-		-		
sugars, which have been reported	to adv	ersely influence the	e hemolytic read	ctions of	beta-hemolytic		
streptococci.							
is the basis for determining hemolyt blood or type of base medium used. be prepared from blood agar base blood (chocolatized).	Chocol	ate agar for isolatin	g Haemophilus a	nd Neisse	eria species can		
QC Tests – (I)Dehydrated Medium							
Colour :	Crea	Cream to yellow					
Appearance :		Homogeneous Free Flowing powder					
(II)Rehydrated medium	-	- <u>-</u>					
		7.4 ± 0.1					
nH (nost autoclaving/heating)	74-	+01					
pH (post autoclaving/heating) :		-					
pH (post autoclaving/heating) : Colour (post autoclaving/heating)	: A) E	Basal medium : Light					
Colour (post autoclaving/heating)	: A) E B) At	Basal medium : Light fter addition of 7%	sterile defibrinate		: Cherry red.		
	: A) B B) At	Basal medium : Light fter addition of 7% Clear to slightly opak	sterile defibrinate		: Cherry red.		
Colour (post autoclaving/heating)	: A) B B) At	Basal medium : Light fter addition of 7%	sterile defibrinate		: Cherry red.		
Colour (post autoclaving/heating) Clarity (post autoclaving/heating) (III)Q.C. Test Microbiological	: A) B B) At : A : C B : C	Basal medium : Light fter addition of 7% Clear to slightly opale Opaque	sterile defibrinate		: Cherry red.		
Colour (post autoclaving/heating) Clarity (post autoclaving/heating) (III)Q.C. Test Microbiological Cultural characteristics observed a	: A) B B) At : A : C B : C	Basal medium : Light fter addition of 7% Clear to slightly opak Opaque -48 hrs. at 35-37°C.	sterile defibrinate escent		: Cherry red.		
Colour (post autoclaving/heating) Clarity (post autoclaving/heating) (III)Q.C. Test Microbiological Cultural characteristics observed a MICROORGANISM (ATCC)	: A) B B) At : A : C B : C	Basal medium : Light fter addition of 7% Clear to slightly opale Opaque -48 hrs. at 35-37°C. GROWTH	sterile defibrinate escent HAEMOLYSIS		: Cherry red.		
Colour (post autoclaving/heating) Clarity (post autoclaving/heating) (III)Q.C. Test Microbiological Cultural characteristics observed a MICROORGANISM (ATCC) Neisseria meningitidis (13090)	: A) E B) Af : A : C B : C after 18-	Basal medium : Light fter addition of 7% Clear to slightly opale Opaque -48 hrs. at 35-37°C. GROWTH Good to luxuriant	sterile defibrinate escent HAEMOLYSIS none		: Cherry red.		
Colour (post autoclaving/heating) Clarity (post autoclaving/heating) (III)Q.C. Test Microbiological Cultural characteristics observed a MICROORGANISM (ATCC) Neisseria meningitidis (13090) Staphylococcus pneumoniae (630	: A) E B) Af : A : C B : C after 18-	Basal medium : Light fter addition of 7% Clear to slightly opale Opaque 48 hrs. at 35-37°C. GROWTH Good to luxuriant Good to luxuriant	sterile defibrinate escent HAEMOLYSIS none alpha		: Cherry red.		
Colour (post autoclaving/heating) Clarity (post autoclaving/heating) (III)Q.C. Test Microbiological Cultural characteristics observed a MICROORGANISM (ATCC) Neisseria meningitidis (13090) Staphylococcus pneumoniae (630 Streptococcus pyogenes (19615)	: A) E B) Af : A : C B : C after 18-	Basal medium : Light fter addition of 7% Clear to slightly opale opaque -48 hrs. at 35-37°C. GROWTH Good to luxuriant Good to luxuriant Good to luxuriant	sterile defibrinate escent HAEMOLYSIS none		: Cherry red.		
Colour (post autoclaving/heating) Clarity (post autoclaving/heating) (III)Q.C. Test Microbiological Cultural characteristics observed a MICROORGANISM (ATCC) Neisseria meningitidis (13090) Staphylococcus pneumoniae (630	: A) E B) Af : A : C B : C after 18-	Basal medium : Light fter addition of 7% Clear to slightly opale Dpaque 48 hrs. at 35-37°C. GROWTH Good to luxuriant Good to luxuriant	sterile defibrinate escent HAEMOLYSIS none alpha		: Cherry red.		

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Precautions :	1. For Laboratory Use.							
i i ccaacions i	2. Follow proper, established laboratory procedures in handling and disposing of							
	infectious materials.							
Limitations :	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.							
		ritional requirements			ns may be			
	encountered that fail to grow or grow poorly on this medium. 4. Hemolytic reactions of some strains of group D streptococci have been shown to be							
		rences in animal bloc						
		oit blood agar and alp						
					orse 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 sin 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_2 or anaerobic conditions.							
Use:	After addition of blood medium permits maximum recovery of many fastidious							
	pathogenic microorganisms without interfering with their haemolytic reactions.							
0	Recommended by ISO.							
Storage:	Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.							
Packing:	500 gm. bottle							
Product profile:	Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization			
	10 5 11	Preparation (500g)		F F O (
B1420	40.5g/l	12.345 L	7.4 <u>+</u> 0.1	5-7% sterile	121ºC / 15 minutes			
				defribinated				
				blood.	<u> </u>			