

B994	COLUMBIA BLOOD AGAR BASE		
Formula			
Ingredients :	gms/lit.		
Peptone, special	23.00		
Corn starch	1.00		
Sodium chloride	5.00		
Agar	15.00		
Final pH (at 25°C) : 7.3 ± 0.2			
Directions :			
Suspend 44 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes Cool to 45-50°C before adding heat sensitive compounds.			
Principle :			
Columbia Blood Agar Base uses specially selected raw materials to support good growth of fastidious microorganisms. Peptone provides nitrogen, carbon, amino acids and vitamins. Corn starch, increases growth of Neisseria and enhances the hemolytic reactions of some streptococci. Agar is a solidifying agent. Sodium Chloride maintains the osmotic balance of the medium. Blood agar bases are relatively free of reducing sugars, which have been reported to adversely influence the hemolytic reactions of B-hemolytic streptococci. Supplementation with blood (5-10%) provides additional growth factors for fastidious microorganisms and aids in determining hemolytic reactions. Hemolytic patterns may vary with the source of animal blood and the type of basal medium used.			
QC Tests - (I) Dehydrated Medium			
Colour :	Cream to light yellow		
Appearance :	Homogeneous Free Flowing powder		
(II) Rehydrated medium			
pH (post autoclaving/heating) :	7.3 ± 0.2		
Colour (post autoclaving/heating) :	A) Basal medium : light yellow to light amber B) (After addition of 5% sterile defibrinated blood): Cherry red		
Clarity (post autoclaving/heating) :	A) Clear to slightly opalescent gel B) Opaque		
(III) Q.C. Test Microbiological			
Cultural characteristics observed after 48 hrs. at 35-37°C.			
MICROORGANISM (ATCC)	GROWTH w/5% BLOOD	HAEMOLYSIS	
Neisseria meningitidis (13090)	Luxuriant	None	
Staphylococcus aureus (25923)	Luxuriant	Beta or gamma	
Staphylococcus epidermidis (12228)	Luxuriant	Gamma	
Streptococcus pneumoniae (6303)	Luxuriant	Alpha	
Streptococcus pyogenes (19615)	Luxuriant	Beta	

Refer disclaimer Overleaf

Precautions :	1. For Laboratory Use.				
	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 supplements. Although certain diagnostic tests may be performed directly on these media, biochemical and, if indicated, immunological testing using pure cultures is recommended for complete identification. Consult appropriate references for further information.				
	3. Haemolytic reactions of some strains of group D streptococci have been shown to be affected by differences in animal blood. Such strains are β - hemolytic on horse, human and rabbit blood agar and α - hemolytic on sheep blood agar.				
	4. Colonies of Haemophilus haemolyticus are β -hemolytic on horse and rabbit blood agar and must be distinguished from colonies of β -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 β -hemolytic streptococci. For optimal performance, incubate blood agar media under increased CO ₂ or anaerobic conditions.				
Use :	For preparation of blood agar, chocolate agar and for various selective and identification media.				
Storage :	Dehydrated medium- below 30°C Prepared medium-Between 2 to 8°C.				
Packing :	500 gm bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B994	44g/l	11.36L	7.3 ± 0.2	5-10%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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