

BIOMARK Laboratories-INDIAwww.biomarklabs.com**TECHNICAL SHEET**

B995	COLUMBIA BLOOD AGAR BASEW/ HEMIN	
Formula		
Ingredients :	gms/lit.	
Peptone, special	23.00	
Corn starch	1.00	
Sodium chloride	5.00	
Hemin	0.01	
Agar	15.00	
Final pH (at 25°C) : 7.3 ± 0.2		
Directions :		
Suspend 44.01 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 before adding heat sensitive compounds.		
For Blood Agar: Add 5% v/v sterile defibrinated sheep blood to sterile cool base.		
For Chocolate Agar: Add 10% v/v sterile defibrinated sheep blood to sterile cool base. Heat to 80°C for 10 minutes with constant agitation. The medium can be made selective by adding different antimicrobials to sterile base.		
For Brucella species: Add rehydrated contents of 1 vial of Brucella Selective Supplement (BF012) to 500 ml sterile molten base.		
For Campylobacter species: Add rehydrated contents of 1 vial of Campylobacter Supplement- I (Blaser-Wang) (BF013) or Campylobacter Supplement- II, (Butzler) (BF014) or Campylobacter Supplement- III (Skirrow) (BF015) or Campylobacter Selective Supplement (BF041) or Campylobacter Supplement- VI (Butzler) (BF042) to 500 ml sterile molten base along with rehydrated contents of 1 vial of Campylobacter Growth Supplement (BF016).		
For Gardnerella species: Add rehydrated contents of 1 vial of G. Vaginalis Selective Supplement (BF040) to 500 ml sterile molten base.		
For Cocci: Add rehydrated contents of 1 vial of Staph-Strepto Supplement (BF148) or Strepto Supplement (BF017) or Streptococcus Selective Supplement (BF043) to 500 ml sterile molten base.		
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 serves as an energy source and also neutralizes toxic metabolites and 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 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 amber B) (After addition of 5% sterile defibrinated blood): Cherry red	
Clarity (post autoclaving/heating) :	A) Clear to slightly opalescent gel B) Opaque	

Refer disclaimer Overleaf

Page 01 of 02

Rev: July 2021

BIOMARK Laboratories-INDIA
www.biomarklabs.com
TECHNICAL SHEET

(III)Q.C. Test Microbiological						
Cultural characteristics observed with added 5% w/v sterile defibrinated blood, after an incubation at 35-37°C for 24-48 hours.						
MICROORGANISM (ATCC)		GROWTH		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		
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 :		It is an efficient and enriched base 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
B995		44.01g/l	11.36L	7.3 ± 0.2	5-10%sterile defibrinated sheep blood	121 ⁰ 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. The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.