

B1161	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 44.0 grams of 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 Modified (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, Modified (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) and 5-7% v/v horse or sheep blood.			
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, 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 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 with added 5% w/v sterile defibrinated blood, after an incubation at 35-37°C for 24-48 hours.			
MICROORGANISM (ATCC)	GROWTH w/5% BLOOD	HAEMOLYSIS	
Neisseria meningitidis (13090)	Luxuriant	None	
Staphylococcus aureus (25923)	Luxuriant	Beta or gamma	

Refer disclaimer Overleaf

TECHNICAL SHEET

Staphylococcus aureus (6538)	Luxuriant	Beta or gamma			
Staphylococcus epidermidis (12228)	Luxuriant	Gamma			
Streptococcus pneumoniae (6303)	Luxuriant	Alpha			
Streptococcus pyogenes (19615)	Luxuriant	Beta			
Clostridium sporogenes (19404)	Luxuriant	-			
Clostridium sporogenes(11437)	Good-luxuriant	-			
Clostridium perfringens (13124)	Luxuriant	-			
Clostridium perfringens (12924)	Luxuriant	-			
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. As this medium have a relatively high carbohydrate content, beta-haemolytic Streptococci may exhibit a greenish haemolytic reaction which may be mistaken for the alpha haemolysis.				
Use :	For preparation of blood agar, chocolate agar and for preparation of various selective and identification media and isolation of organisms from clinical and non clinical samples.				
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
B1161	44g/l	11.36L	7.3 ± 0.2	5-10% sterile defibrinated blood or as desired.	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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