

B997	COLUMBIA C.N.A. AGAR					
Formula						
Ingredients :			gms/lit.			
Biopeptone			20.00			
Tryptic digest of beef heart			3.00			
Corn starch			1.00			
Sodium chloride			5.00			
Colistin sulphate			0.01			
Nalidixic acid			0.015			
Agar			10.00			
Final pH (at 25°C) : 7.3 ± 0.2						
Directions :						
Suspend 39 gms in 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add 5% v/v sterile, defibrinated blood. Mix well and pour into sterile petri plates.						
Principle :						
Combination of peptones and an infusion peptone support the rapid and luxuriant growth and sharply defined haemolytic reactions, typical colonial morphology and improved pigment production. Subsequently, Ellner et al found that a medium consisting of 5% sheep blood and 10µg Colistin and 15 µg Nalidixic acid per ml of medium, suppressed growth of Proteus, Klebsiella and Pseudomonas species while permitted unrestricted growth of Staphylococci, haemolytic Streptococci and Enterococci. Colistin and Nalidixic acid inhibit gram – negative bacteria by disrupting the cell membrane and blocking DNA replication respectively.						
QC Tests – (I) Dehydrated Medium						
Colour :		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 : Yellow b) (with addition of 5% v/v sterile, defibrinated blood : Cherry red				
Clarity (post autoclaving/heating) :		a) Slightly opalescent. b) Opaque				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 40 –48 hrs. at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH	HAEMOLYSIS			
Staphylococcus aureus (25923)		Luxuriant	Beta / gamma			
Staphylococcus epidermidis (12228)		Luxuriant	Gamma			
Streptococcus pneumoniae (6303)		Luxuriant	Alpha			
Streptococcus pyogenes (19615)		Luxuriant	Beta			
Escherichia coli (25922)		Inhibited	-			
Neisseria meningitidis (13090)		Inhibited	-			
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.				
Use :		For selective isolation of pathogenic gram-positive cocci from clinical and nonclinical specimens.				
Storage :		Dehydrated medium and prepared medium – Between 2 to 8°C.				
Packing :		500 gm bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B997		39 g/l	12.82L	7.3 ± 0.2	5% v/v sterile, defibrinated blood	121°C / 15 minutes