

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B305	REINFORCED CLOSTRIDIAL AGAR					
Formula						
Ingredients :			gms/lit.			
Casein enzymic hydrolysate			10.00			
Beef extract			10.00			
Yeast extract			3.00			
Dextrose			5.00			
Sodium chloride			5.00			
Sodium acetate			3.00			
Starch, soluble			1.00			
L-Cysteine hydrochloride			0.50			
Agar			13.50			
Final pH (at 25°C) : 6.8 ± 0.2						
Directions :						
Suspend 51.00 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. Mix well and dispense as desired.						
Principle :						
Reinforced Clostridial Agar contains casein enzymic hydrolysate and beef extract as sources of carbon, nitrogen, vitamins and minerals. Yeast extract supplies B-complex vitamins which stimulate bacterial growth. Dextrose is the carbohydrate source. Sodium chloride maintains the osmotic balance. In low concentrations, soluble starch detoxifies metabolic byproducts. Cysteine hydrochloride is the reducing agent. Sodium acetate acts as a buffer. The small amount of Agar makes the medium semisolid.						
QC Tests – (I) Dehydrated Medium						
Colour :			Cream to yellow			
Appearance :			Homogeneous Free Flowing powder			
(II) Rehydrated medium						
pH (post autoclaving/heating) :			6.8 ± 0.2			
Colour (post autoclaving/heating) :			Light yellow			
Clarity (post autoclaving/heating) :			Clear to slightly opalescent			
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 40 – 48 hrs. at 35-37°C, in an anaerobic atmosphere.						
MICROORGANISM (ATCC)			GROWTH			
Bacteroides fragilis (23745)			Good - luxuriant			
Bacteroides vulgatus (8482)			Good - luxuriant			
Clostridium butyricum (9690)			Good - luxuriant			
Clostridium perfringens (13124)			Good - 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.				
Use :		For the cultivation and enumeration of Clostridia and other anaerobes.				
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
B305		51 g/l	9.80 L	6.8 ± 0.2	Nil	121°C/15 min.