

TECHNICAL SHEET

B305	REINFORCED CLOSTRIDIAL AGAR					
Formula						
Ingredients :			gms/lit.			
Casein enzymic hydrolysate			10.00			
Meat Extract B#			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			
#- Equivalent to Beef extract						
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 Meat Extract B 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.

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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