

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B105	ANAEROBIC AGAR (BREWER)				
Formula					
Ingredients :		gms/lit.			
Proteose peptone		10.00			
Casein enzymic hydrolysate		5.00			
Yeast extract		5.00			
Dextrose		10.00			
Sodium chloride		5.00			
Sodium thioglycollate		2.00			
Sodium formaldehyde sulphoxylate		1.00			
Resazurin		0.002			
Agar		15.00			
Final pH (at 25°C) : 7.2 ± 0.2					
Directions :					
Suspend 53 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. Mix well and pour into sterile Petri plates.					
Principle :					
Proteose peptone, casein enzymic hydrolysate, yeast extract provides nitrogen, vitamin and amino acids. Dextrose is a carbohydrate source. This medium contains sodium thioglycollate and sodium formaldehyde sulphoxylate that provide adequate anaerobiosis, which is indicated by resazurin present in the medium. Resazurin imparts pink colour to the medium in presence of oxygen. Brewer devised this medium for use with Brewer anaerobic cover to permit surface growth of anaerobes and microaerophiles on agar without the use of anaerobic jar. For best results, use porous tops on the plates containing the medium during solidification to obtain a dry surface. After inoculation of the medium, cover with Brewer anaerobic petri plate cover. The sealing ring inside the cover should make a perfect contact with the medium and must not be broken before the end of the incubation period.					
QC Tests – (I) Dehydrated Medium					
	Colour :	Cream to light yellow			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	7.2 ± 0.2			
	Colour (post autoclaving/heating) :	Light amber			
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18 - 48 hrs. at 35-37°C.					
	MICROORGANISM (ATCC)	GROWTH			
	Clostridium botulinum (19397)	Luxuriant			
	Clostridium perfringens (12924)	Luxuriant			
	Clostridium sporogenes (11437)	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 sensitivity testing and isolation of anaerobic and microaerophilic organisms.				
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
B105	53.00 g/l	9.43 L	7.2 ± 0.2	Nil	121°C /15 min.