BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B358	**WILKINS CHALGREN ANAEROBIC BROTH**
Formula	
Ingredients :	**gms/lit.**
Casein enzymic hydrolysate	10.00
Peptic digest of animal tissue	10.00
Yeast extract	5.00
Dextrose	1.00
Sodium chloride	5.00
L-arginine	1.00
Sodium pyruvate	1.00
Hemin	0.005
Menadione	0.0005

Final pH (at 25°C) : 7.1 ± 0.2

Directions :

Suspend 33.0 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Dispense and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C before adding antibiotics to be tested. Mix gently and dispense into sterile tubes. For cultivation of anaerobes, aseptically add the rehydrated contents of 2 vials each of Non-Spore Anaerobic Supplement (BF100) or G. N. Spore Anaerobic Supplement (BF101) as desired to the sterile molten medium before dispensing into sterile tubes.

Principle :

Peptic digest of animal tissues and casein enzymic hydrolysate serve as sources of essential nutrients including carbon and nitrogen. Yeast extract provides vitamins and other growth factors like purines and pyrimidines that are essential for the growth of P. melaninogenica. Arginine serves as an amino acid source while pyruvate serves as an energy source. The medium can be made selective for non-sporing anaerobic bacteria and gram-negative anaerobic bacteria by addition of Non-Spore Anaerobic Supplement (BF100) and G. N. Spore Anaerobic Supplement (BF101) respectively.

QC Tests – (I)Dehydrated Medium		
	Colour :	Cream to yellow
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	7.1 ± 0.2
	Colour (post autoclaving/heating) :	Medium amber
	Clarity (post autoclaving/heating) :	Clear
(III)Q.C. Test Microbiological		

Cultural characteristics observed with added Non-Spore Anaerobic Supplement (BF100) or G.N.Spore Anaerobic Supplement (BF101) Under anaerobic conditions, after an incubation at 35-37°C of 48 hours.

MICROORGANISM (ATCC)	GROWTH
Bacteroides fragilis (25285)	Luxuriant
Prevotella melaninogenicus (15930)	Luxuriant
Clostridium perfringens (12924)	Luxuriant
Escherichia coli (25922)	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 cultivation and susceptibility testing of anaerobic bacteria.
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
B358	33.0 g/l	15.15 L	7.1 ± 0.2	Non-spore Anaerobic (BF100) or G.N.spore anaerobic supplement(BF101).	121^0C/15 min.