

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B657	PRESTON AGAR BASE					
Formula						
Ingredients : gms/lit.						
Peptic digest of animal tissue 10.00						
Beef extract 10.00						
Sodium chloride 5.00						
Agar 12.00						
Final pH (at 25°C) : 7.5 ± 0.2						
Directions :						
Suspend 18.5 grams in 470 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 and aseptically add 25 ml sterile, lysed horse blood and reconstituted contents of 1 vial of Campylobacter Selective Supplement IV (Preston Selective Supplement) (BF033). Mix well and pour into sterile Petri plates.						
Principle :						
Peptic digest of animal tissue and beef extract in the medium provide nitrogen, vitamins and minerals necessary to support bacterial growth. Sodium chloride provides essential ions. The antibiotic supplement renders it selective for Campylobacter species.						
QC Tests - (I) Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.5 ± 0.2				
Colour (post autoclaving/heating) :		a) Basal medium : light yellow b) After addition of sterile lysed horse blood : Chocolate brown				
Clarity (post autoclaving/heating) :		a) Clear to slightly opalescent b) Opaque				
(III) Q.C. Test Microbiological						
Cultural characteristics observed with added 25ml sterile lysed horse blood and Campylobacter Supplement IV (Preston Selective Supplement), (BF033), after an incubation at 42°C for 48 hours (5% O ₂ + 10% CO ₂ + 85% N ₂).						
MICROORGANISM (ATCC)		GROWTH				
Campylobacter jejuni (29428)		Good-luxuriant				
Campylobacter coli (33559)		Good-luxuriant				
Campylobacter lari (35221)		Good-luxuriant				
Escherichia coli (25922)		Inhibited				
Staphylococcus aureus (25923)		Inhibited				
Bacillus cereus (10876)		Inhibited				
Proteus mirabilis (25933)		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 thermotolerant Campylobacter species.				
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
B657	37g/l	13.513L	7.5 ± 0.2	sterile lysed horse blood and Campylobacter Supplement IV (Preston Selective Supplement), (BF033),	121°C / 15 minutes	

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