

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B945</b>	<b>BLOOD FREE CAMPYLOBACTER SELECTIVITY AGAR BASE</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Beef extract		10.00			
Peptone		10.00			
Casein enzymic hydrolysate		3.00			
Sodium chloride		5.00			
Sodium deoxycholate		1.00			
Ferrous sulphate		0.25			
Sodium pyruvate		0.25			
Charcoal, bacteriological		4.00			
Agar		12.00			
Final pH (at 25°C) : 7.4 ± 0.2					
<b>Directions :</b>					
Suspend 22.75 grams in 500 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 rehydrated contents of 1 vial of Campylobacter Supplement V (BF018). Alternatively, to increase the selectivity of the medium, rehydrated content of one vial of CAT Selective Supplement (BF108) may be added to 500 ml sterile molten base. Mix well and pour into sterile Petri plates.					
<b>Principle :</b>					
Peptone, casein enzymic hydrolysate and meat extract B serve as sources of essential nutrients and amino acids. Casein is added to help grow certain strains of nalidixic acid resistant thermophilic Campylobacter that are environmental organisms. Additional Amphotericin B in Blood Free Campylobacter Broth Base suppresses the growth of yeast and mold contaminants. Colonies tend to swarm when initially isolated from clinical specimens.					
<b>QC Tests – (I)Dehydrated Medium</b>					
Colour :		Grey to black			
Appearance :		Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.4 ± 0.2			
Colour (post autoclaving/heating) :		Black			
Clarity (post autoclaving/heating) :		Opaque			
<b>(III)Q.C. Test Microbiological</b>					
Cultural characteristics observed with added supplement, after an incubation at 42°C for 24-48 hours.					
MICROORGANISM (ATCC )		GROWTH		COLOUR OF COLONY	
Campylobacter jejuni (29428)		Good - luxuriant		Grey	
Campylobacter coli (33559)		Good - luxuriant		Creamy grey	
Campylobacter laridis		Good - luxuriant		Varying type	
Escherichia coli (25922)		Inhibited		-	
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>	For selective isolation and differentiation of Campylobacter species from food and animal feeding stuffs. The composition and performance criteria of this medium are as per the specifications laid down in ISO 10272:1995.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B945</b>	45.5g/l	10.989L	7.4 ± 0.2	Campylobacter Supplement V(BF108)	121°C / 15 minutes