

TECHNICAL SHEET

B1080	KARMALI CAMPYLOBACTER AGAR BASE	
Formula		
Ingredients :	gms/lit.	
Peptone, special	23.00	
Corn starch	1.00	
Sodium chloride	5.00	
Charcoal	4.00	
Agar	12.00	
Final pH (at 25°C) : 7.4 ± 0.2		
Directions :		
Suspend 22.5 grams in 490 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. Aseptically add 5 ml of Hemin solution (16 mg/5ml) & rehydrated contents of 1vial of Campylobacter selective supplement Karmali (BF112). Alternatively, 1 vial of Campylobacter selective supplement w/Hemin (BF113) can be added instead of BF112 and Hemin. Mix well and pour into sterile Petri plates.		
Principle :		
Peptone special, cornstarch and hemin, serve as sources of essential nutrients required for bacterial metabolism. Presence of charcoal in the medium helps to neutralize the toxic metabolic products formed in the medium. Sodium pyruvate (present in Supplement) enhances, the aerotolerance of microaerophilic Campylobacter by quenching the toxic forms of oxygen. The antibiotics included in the selective supplement are Vancomycin, Amphotericin B and Cefoperazone. Vancomycin suppresses gram-positive organisms while Amphotericin inhibits the fungal flora. Cefoperazone has inhibitory action on gram-negative organisms other than Campylobacter. The inoculated plates are incubated in an atmosphere consisting of approximately 5-6% O ₂ , 10% CO ₂ and 84-85% N ₂ at 42°C.		
QC Tests - (I) Dehydrated Medium		
Colour :	Greyish-black	
Appearance :	Homogeneous Free Flowing powder	
(II) Rehydrated medium		
pH (post autoclaving/heating) :	7.4 ± 0.2	
Colour (post autoclaving/heating) :	Black	
Clarity (post autoclaving/heating) :	Opalescent gel	
(III) Q.C. Test Microbiological		
Cultural characteristics observed with added Hemin solution and Campylobacter Selective Supplement Karmali (BF112) or Campylobacter selective supplement w/Hemin (BF113), after an incubation at 42°C for 42-48 hours.		
MICROORGANISM (ATCC)	GROWTH	
Campylobacter jejuni (29428)	Good-luxuriant	
Campylobacter coli (33559)	Good-luxuriant	
Escherichia coli (25922)	None-poor	
Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.	

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Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
	2. Campylobacter Agar prepared with either Campylobacter Antimicrobial Supplement S or Campylobacter Antimicrobial Supplement B is selective primarily for Campylobacter species. Biochemical testing using a pure culture is necessary for complete identification. Consult appropriate references for further information.				
	3. Growth of Campylobacter fetus subsp. Intestinalis may be dramatically inhibited on Campylobacter Agar Blaser due to the presence of cephalothin. The use of Campylobacter Agar Skirrow and incubation at 35°C is suggested when isolating these organisms from mixed populations.				
	4. Some strains may show poor growth due to strain variability.				
	5. Some strains of normal enteric organisms may be encountered that are not inhibited or only partially inhibited on Campylobacter Agar.				
Use :	For selective isolation and cultivation of thermotolerant Campylobacter species from food and animal feeds.				
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
B1080	45.0 g/l	11.111L	7.4 ± 0.2	Hemin solution (16mg/5ml) rehydrated contents of 1 vial Campylobacter selective supplement Karmali (BF112) or Campylobacter selective supplement w/Hemin (BF113)	121°C / 15 minutes