

**TECHNICAL SHEET**

<b>B1381</b>	<b>BOLTON BROTH BASE</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Enzymic digest of animal tissues		10.00			
Lactalbumin hydrolysate		5.00			
Yeast extract		5.00			
Sodium chloride		5.00			
Sodium metabisulphite		0.50			
Sodium carbonate		0.60			
Hemin		0.010			
Alpha-ketoglutaric acid		1.00			
Sodium pyruvate		0.50			
Final pH (at 25°C) : 7.4 ± 0.2					
<b>Directions :</b>					
Suspend 13.78 gms. in 500 ml. distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121° C) for 15 minutes. Cool to 40 – 50 °C and aseptically add rehydrated contents of Bolton selective supplement (BF150) and 25 ml.of sterile defibrinated horse blood in the medium. Horse blood may be saponin lysed or lysed by freezing and thawing out. Mix well and aseptically dispense into sterile tubes.					
<b>Antibiotics Vancomycin Principle :</b>					
The medium is formulated as per recommendations of ISO for selective enrichments of Campylobacter spp. from foods. The medium is made selective by addition of antibiotics. The medium contains nutrients which help in resuscitation of sublethally damaged cells of Campylobacter. Hence microaerophilic incubation is not needed. The supplement four different antibiotics. Vancomycin, cefoperazone and trimethoprim inhibits growth of Gram-positive and gram-negative bacteria while amphotericin B reduces growth of yeasts and moulds. Inoculate small quantity of test sample into nine times its volume of Bolton broth so as to obtain a test portion/enrichment medium ration of 1:10 (mass/volume or volume/volume) and homogenize. Incubate at 37C. for 4-6 hours, then at 41C. for 45± 3 hours. A loopful of this culture is streaked on Karmali Campylobacter Agar base (B1080).					
<b>QC Tests – (I) Dehydrated Medium</b>					
	Colour :	Light yellow to brownish yellow			
	Appearance :	Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
	pH (post autoclaving/heating) :	7.4 ± 0.2			
	Colour (post autoclaving/heating) :	A) Basal medium : Brownish yellow B) After addition of lysed horse blood : Red to brown color opaque solution in tubes			
	Clarity (post autoclaving/heating) :	A : Clear to slightly opalescent B : Opaque			
<b>(III) Q.C. Test Microbiological</b>					
	Cultural characteristics observed after at 35-37 C. for 4-6 hours and at 41.5 C. for 40-48 hrs. with added Bolton selective supplement (BF150).				
	MICROORGANISM (ATCC )	GROWTH			
	Campylobacter coli (33559)	Good to luxuriant			
	Campylobacter jejuni (29428)	Good to luxuriant			
	Candida albicans (10231)	Inhibited			
	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>	Selective enrichment of Campylobacter spp. From foods.				
<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>B1381</b>	27.56g/l	18.14L	7.4 ± 0.2	Bolton selective supplement	121°C / 15 minutes

**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARK LABORATORIES publications.

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