

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B1456</b>	<b>CAMPYLOBACTER BOLTEN ENRICHMENT BROTH BASE</b>		
<b>Formula</b>			
<b>Ingredients:</b>		<b>gms/lit.</b>	
Enzymatic digest of animal tissue	10.00		
Lactalbumin hydrolysate	5.00		
Yeast extract	5.00		
Sodium chloride	5.00		
Sodium pyruvate	0.50		
Sodium metabisulfite	0.50		
Sodium carbonate	0.6		
Ketoglutaric acid	1.0		
Hemin	0.01		
Final pH (at 25°C): 7.5 ± 0.2			
<b>Directions:</b>			
Suspend 13.8 gms. in 500 ml. distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to room temperature and aseptically add reconstituted contents of one vial of Bolten Selective Supplement (BF158) together with sterile 25 ml of lysed horse blood. Mix well and dispense as desired.			
<b>Principle:</b>			
Enzymatic digest of animal tissue and yeast extract provide growth nutrients. The antibiotic supplement makes the medium selective for the isolation of Campylobacter species. The sample is added in the sterile enrichment broth and may be blended at low speed or stomached and is incubated at 42°C for 48 hours in microaerobic condition. Enrichment culture is further streaked on selective agar for isolation and enumeration. The 5% O <sub>2</sub> , 10% CO <sub>2</sub> and 85% N <sub>2</sub> is the gas combination used. Colonies tend to swarm when initially isolated from clinical specimens.			
<b>QC Tests - (I) Dehydrated Medium</b>			
Colour:	Cream to light yellow		
Appearance:	Homogeneous Free Flowing powder		
<b>(II) Rehydrated medium</b>			
pH (post autoclaving/heating):	7.5 ± 0.2		
Colour (post autoclaving/heating):	A) Basal medium: light amber B) (After addition of blood yields): Cherry red		
Clarity (post autoclaving/heating):	A) Clear B) Clear without any precipitate		
<b>(III) Q.C. Test Microbiological</b>			
Cultural characteristics observed after 48 hrs at 42°C (5%O <sub>2</sub> + 10% CO <sub>2</sub> + 85%N <sub>2</sub> )			
MICROORGANISM (ATCC)	GROWTH*		
Campylobacter jejuni (33291)	Good-luxuriant		
Campylobacter coli (33559)	Good-luxuriant		
Campylobacter lari (35221)	Good-luxuriant		
Escherichia coli (25922)	Inhibited		
Proteus mirabilis (25933)	Inhibited		
Staphylococcus aureus (25923)	Inhibited		
Bacillus cereus (10876)	Inhibited		
* Key: * = with the addition of supplement			
<b>Precautions :</b>			
1. For Laboratory Use.			
2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.			

Refer disclaimer Overleaf

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<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 enrichment and cultivation of Campylobacter species. Recommended by ISO10272-1:2006				
<b>Storage:</b>	Dehydrated medium- below 30 ° C Prepared mediums- 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>B1456</b>	27.6 g/l	18.11 L	7.5 ± 0.2	Sterile 25 ml lysed horse blood and reconstituted contents of 1 vial of Bolten selective supplement (BF158).	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 BIOMARKLABORATORIES publications.

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