BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1159	**CAMPYLO THIOGLYCOLLATE MEDIUM**
Formula	
Ingredients :	**gms/lit.**
Casein enzymic hydrolysate	20.00
Sodium chloride	2.50
Dipotassium phosphate	1.50
Sodium thioglycollate	0.60
L-Cystine	0.40
Sodium sulphite	0.20
Agar	1.60
Final pH (at 25°C) : 7.0 ± 0.2	

Directions :

Suspend 26.8 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. To make the medium selective for Campylobacter species, add reconstituted contents of 2 vials of Campylobacter supplement-I (Blaser-Wang, BF013). Mix well before dispensing.

Principle :

The medium contains necessary nutrients to promote growth of Campylobacter species. Moreover the supplement (Blaser and Wang) consists of five antibiotics viz. Amphotericin B, Cephalothin, Polymyxin B, Trimethoprim and Vancomycin which inhibit multiplication of normal microbial flora in faecal specimens thus facilitating isolation of Campylobacter jejuni, Cephalothin may not always inhibit Campylobacter fetus species and some strains may grow at 42°C. Further tests should be performed to confirm the Campylobacter jejuni.

QC Tests – (I)Dehydrated Medium		
	Colour :	Yellow
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	7.0 ± 0.2
	Colour (post autoclaving/heating) :	Light to medium amber
	Clarity (post autoclaving/heating) :	Very slightly opalescent
(III)Q.C. Test Microbiological		
	Cultural characteristics observed with added Campylobacter Supplement I (Blaser Wang, BF013) in an atmosphere of 5-15% O2 and 5-12% CO2 after an incubation at 42°C for 18-24 hours.	

	MICROORGANISM (ATCC)	GROWTH
	Campylobacter jejuni (33291)	Good-luxuriant
	Campylobacter coli (33559)	Good-luxuriant
	Helicobacter pylori (43504)	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.
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 maintenance, transport and storage of 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
B1159	26.8g/l	18.65L	7.0 ± 0.2	Campylobacter supplement I (Blaser Wang, BF013)	121^0C / 15 minutes