B1480	PARK AND SANDERS BROTH BASE

Formula

Ingredients :	**gms/lit.**
Casein enzymic hydrolysate	10.00
Peptic digest of animal tissue	10.00
Yeast extract	2.00
Dextrose	1.00
Sodium citrate	1.00
Sodium chloride	5.00
Sodium bisulphite	0.10
Sodium pyruvate	0.25

Final pH (at 25°C) : 7.0 ± 0.2

Directions :

Suspend 29.35 gms. in 940ml. distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45°C and aseptically add 50ml of sterile defibrinated lysed horse blood and reconstituted contents of 1 vial of park and sanders selective supplement I (BF087) Mix well. Allow it to stand for 4 hours at 31 to 32°C. Add reconstituted contents of 1 vial of Park and Sanders Selective Supplement II (BF032) and incubate for 24 hours at 37°C and then at 42°C under a microaerobic atmosphere for additional 40 to 42 hours with agitation at 100 rpm.

Principle :

Casein enzymic hydrlolysate, peptic digest of animal tissue, yeast extract provide nitrogenous compounds, carbon, sulphur, vitamin and trace elements. Glucose is the energy source. Campylobacter species are microaerophilic. Sodium pyruvate helps of aerotolerance. Sodium sulphite helps in survival of the organism in higher nitrogen atmosphere.

QC Tests – (I)Dehydrated Medium		
	Colour :	Light yellow to beige
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	7.0 ± 0.2
	Colour (post autoclaving/heating) :	Basal medium - Light yellow After addition of 5% v/v sterile defibrinated lysed horse blood - Cherry red
	Clarity (post autoclaving/heating) :	Basal medium - Clear After addition of 5% v/v sterile defibrinated lysed horse blood - opalescent solution in tubes
(III)Q.C. Test Microbiological		

Cultural characteristics observed with added 5% defibrinated lysed horse blood along with BF087 and BF089, after an incubation at 42°C for 48 hours under microaerobic atmosphere.

MICROORGANISM (ATCC)	GROWTH	
Campylobacter jejuni (29428)	Good – luxuriant	
Campylobacter coli (33559)	Good	
Escherichia coli (25922)	Inhibited	

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 :	It is recommended for selective enumeration of thermotolerant Campylobacter species from food and animal feed.The composition and performance criteria of this medium are as per the specifications laid down in ISO/DIS 10272:1995.
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
B1480	29.35g/l	17.035L	7.0 ± 0.2	defibrinated lysed horse blood and BF087 and BF032	121^0C / 15 minutes

Refer disclaimer Overleaf

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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