

<b>B1490</b>	<b>MODIFIED SOYABEAN BILE BROTH BASE</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Casein peptone		17.00			
Soya peptone		3.00			
D-Glucose		2.50			
Bile salt mixture		1.50			
Dipotassium hydrogen phosphate		4.00			
Sodium chloride		5.00			
Final pH (at 25°C) : 7.3 ± 0.2					
<b>Directions :</b>					
Suspend 16.50 grams 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 45-50°C and aseptically add rehydrated contents of 2 vials of Novobiocin Supplement (BF083). Mix well and dispense as desired.					
<b>Principle :</b>					
Casein peptone and Soya peptone provide carbonaceous, nitrogenous compounds and other essential growth nutrients. D-Glucose is the fermentable carbohydrate and energy source. Bile salts mixture inhibits gram-positive bacteria. Sodium chloride maintains osmotic equilibrium while phosphate buffers the medium well. Novobiocin renders the medium selectivity. Whenever low levels of <i>E.coli</i> O157:H7 are suspected, the food is enriched in Modified Soyabean Bile Broth and further plated on selective medium as Sorbitol MacConkey Agar or Hemorrhagic coli (HC) Agar for isolation and identification. Blend 25 grams food sample to be tested in 224 ml Modified Soyabean Bile Broth and incubate with shaking (about 100 rpm) at 37°C for 18-24 hours. Prepare dilution of the enrichment culture with phosphate buffer and spread 0.1 ml of each dilution on HC Agar plates and incubate at 43°C for 24 hours.					
<b>QC Tests – (I) Dehydrated Medium</b>					
	Colour :	Cream to yellow			
	Appearance :	Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
	pH (post autoclaving/heating) :	7.3 ± 0.2			
	Colour (post autoclaving/heating) :	Light amber			
	Clarity (post autoclaving/heating) :	Clear solution			
<b>(III) Q.C. Test Microbiological</b>					
	Cultural characteristics observed after an incubation at 35-37°C Or 41.5°C for 18-24 hours, with added Novobiocin Supplement (BF083). Recovery done on Sorbitol MacConkey Agar (B1441)				
	MICROORGANISM (ATCC )	GROWTH ON SORBITOL MACCONKEY AGAR (B1441)			
	Escherichia coli O157:H7 NCTC 12900	Good-luxuriant			
	Escherichia coli (25922)	Good			
	Enterococcus faecalis (29212)	None			
	Staphylococcus aureus(25923)	None			
<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>	Enrichment medium for the detection of <i>Escherichia coli</i> O157:H7 from food. The composition and performance criteria of this medium are as per the specifications laid down in ISO 1999 Draft ISO/DIS 16654.				
<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>B1490</b>	33g/l	15.15L	7.3 ± 0.2	Novobiocin Supplement (BF083).	121°C / 15 minutes