TECHNICAL SHEET

BH1173	**ENTEROBACTER ENRICHMENT BROTH MOSSEL**

Formula		
Ingredients:	**gms/lit.**	
Pancreatic digest of gelatin	10.00	
D-Glucose monohydrate	5.00	
Dehydrated bile #	20.00	
Disodium hydrogenPhosphate Dihydrate	8.00	
Potassium dihydrogen phosphate	2.00	
Brilliant green	0.015	
#Equivalent to Dehydrated Ox-bile		

Final pH (at 25°C) : Self

Directions:

Suspend 42.93 grams (the equivalent weight of dehydrated medium per litre) in 1000 ml purified/distilled water. Dispense into tubes or flasks as desired. Heat in free-flowing steam or boiling water (100°C) for 30 minutes and cool immediately. DO NOT AUTOCLAVE.

Principle:

The family Enterobacteriaceae consists of Salmonella, Shigella and other enteric pathogens. These organisms find entry into the food system through faecally contaminated water. Majority of these organisms may be eliminated under the stringent food processing parameters. But some of these organisms may become sub lethally injured during the changes in pH, exposure to steam or heat and other unfavorable conditions.Therefore, the important aspect of food monitoring depends upon the identification and enumeration of these injured cells, after resuscitation.EE Broth Mossel, is recommended as an enrichment medium for bile tolerant gram-negative bacteria in the biological examination of foods, animal feed stuffs. This medium is prepared in accordance with the harmonized method of USP/EP/BP/JP/IP.Peptic digest of gelatin provides nitrogen, vitamins and amino acids. Dextrose is a carbon source. Disodium hydrogen phosphate and Potassium dihydrogen Phosphate are buffering agents. Brilliant Green and Dehydrated-bile are selective agents.

Type of specimen : Pharmaceutical samples; Clinical samples.

Specimen Collection and Handling:
For pharmaceutical samples follow appropriate techniques for sample collection as per established and current guidelines of USP/EP/BP/JP/IP.
For clinical samples follow appropriate techniques for handling specimens as per established and current guidelines of clinical microbiology.
After use, contaminated materials must be sterilized by autoclaving before discarding.

QC Tests – (I)Dehydrated Medium	
Colour:	Light yellow to greenish yellow
Appearance:	Homogeneous Free Flowing powder
(II)Rehydrated medium	
pH (post autoclaving/heating) :	Self
Colour (post autoclaving/heating) :	Green
Clarity (post autoclaving/heating) :	Clear

Growth Promotion Test : Growth promotion is carried out in accordance with the harmonized method of USP/EP/BP/JP/IP.Cultural response was observed after an incubation at 30-35°C for specified time.
Growth promoting properties: Clearly visible growth of microorganism comparable to that previously obtained with previously tested and approved lot of medium occurs at the specified temperature for not more than shortest period of time specified inoculating <= 100cfu (at 30-35°C for <= 24 hours).
Inhibitory properties: No growth of the test microorganisms occurs for the specified temperature for not less than longest period of time specified inoculating >= 100cfu (at 30-35°C for >= 48 hours).

Refer disclaimer overleaf

(III)Q.C. Test Microbiological					
	Cultural characteristics observed after 24-48 hrs.at 30-35°C.				
	MICROORGANISM (ATCC)	GROWTH	ACID	INCUBATION TEMP.	INCUBATION PERIOD
	Growth Promoting				
	Escherichia coli (8739)	Luxuriant	+	30-35°C	<= 24 hours
	Pseudomonas aeruginosa (9027)	Luxuriant	-	30-35°C	<= 24 hours
	Inhibitory				
	Staphylococcus aureus (6538)	Inhibited		30-35°C	>= 48 hours
	Additional microbiological testing				
	Escherichia coli (25922)	Luxuriant	+	30-35°C	24- 48 hours
	Escherichia coli (NCTC 9002)	Luxuriant	+	30-35°C	24- 48 hours
	Pseudomonas aeruginosa (27853)	Luxuriant	-	30-35°C	24- 48 hours
	Enterobacter aerogenes (13048)	Luxuriant	+	30-35°C	24- 48 hours
	Proteus mirabilis (25933)	Luxuriant	+	30-35°C	24- 48 hours
	Salmonella enteritidis (13076)	Luxuriant	±	30-35°C	24- 48 hours
	Shigella boydii (12030)	Luxuriant	-	30-35°C	24- 48 hours
	Staphylococcus aureus (25923)	Inhibited	-	30-35°C	>= 48 hours
	Key: + = positive, yellow colouration				
	- = negative, no colour change, green				
	± = variable reaction				

Warning &Precautions :	1. For In vitro diagnostic Use.By professionals only.				
	2. Read the label carefully before opening the container.Wear PPE wares.Follow established good microbiology laboratory practices while handling specimens and cultures and take standard precautions for handling clinical specimens.				
	3. For safety guidelines refer individual safety data sheet.				
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
	2.Further isolation has to be carried out for confirmation.				
Use:	For selective enrichment of Enterobacteriaceae from pharmaceutical products in accordance with themicrobial limit testing by harmonized methodology of USP/EP/BP/JP/IP.				
Storage:	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.				
Disposal:	Ensure safe disposal by autoclaving/or incineration of used or usable preparation of this product. Follow established laboratory procedures while disposing all infectious material and those coming in contact must be decontaminated and disposed off with existing laboratory technics.				
Packing:	500 gm bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
BH1173	42.93 g/l	11.64 L	Self	Nil	Don't autoclave. Heat in free-flowing steam or boiling water (100°C) for 30 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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