

**TECHNICAL SHEET**

<b>B1334</b>	<b>FRASER BROTH</b>		
<b>Formula</b>			
<b>Ingredients :</b>		<b>Gms/lit.</b>	
Casein enzymic hydrolysate		5.00	
Proteose peptone		5.00	
Yeast extract		5.00	
Meat extract		5.00	
Sodium chloride		20.00	
Lithium chloride		3.00	
Disodium hydrogen phosphate		12.00	
Potassium dihydrogen phosphate		1.35	
Esculin		1.00	
Ferric ammonium citrate		0.50	
Final pH (at 25°C) : 7.2 ± 0.2			
<b>Directions :</b>			
Suspend 58.00 gms.in 990 ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50° C & aseptically add rehydrated contents of 1 vl.of Fraser Listeria Supplement OR Fraser Enrichment Supplement. Mix thoroughly & dispense as desired.			
<b>Principle :</b>			
Casein enzymic hydrolysate, beef extract andYeast extract provide nitrogen, vitamins and minerals. Sodium phosphate and potassium phosphate are buffering agents. Differentiation is aided by including ferric ammonium citrate in the final medium. Since all Listeria species hydrolyze esculin, the addition of ferric ions to the medium will detect the reaction. Selectivity is provided by the presence of lithium chloride, nalidixic, acid and acriflavine in the formula. The high salt tolerance of Listeria is used as a means to inhibit growth of Enterococci.			
<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) :		7.2 ± 0.2	
Colour (post autoclaving/heating) :		Light yellow to yellow	
Clarity (post autoclaving/heating) :		Clear solution with slightly precipitate	
<b>(III)Q.C. Test Microbiological</b>			
Cultural characteristics observed after 24-48 hrs.at 35-37°C.			
MICROORGANISM (ATCC )	GROWTH	ESCULIN HYDROLYSIS*	
Listeria monocytogenes (19117 )	Luxuriant	+	
Enterococcus faecalis (29212)	Inhibited	-	
Escherichia coli (25922)	Inhibited	-	
Staphylococcus aureus (25923)	Inhibited	-	
Key : + = blackening of medium			
* = subcultured on Listeria selective agar			
<b>Precautions :</b>		1. For Laboratory Use.	
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.	
		3. HARMFUL. Irritating to eyes, respiratory system and skin. May cause harm to the unborn child. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. Target organ(s) : Blood, Kidneys, Nerves.	

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.				
	2. Since Listeria species other than L. monocytogenes can grow on these media, an identification of Listeria monocytogenes must be confirmed by biochemical and serological testing.				
	3. Poor growth and a weak esculin reaction may be seen after 40 hours incubation for some enterococci.				
<b>Use :</b>	For the isolation, cultivation and enrichment of Listeria monocytogenes from foods and environmental specimens.				
<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>B1334</b>	58g/l	8.62L	7.2 ± 0.2	Fraser Listeria Supplement OR Fraser Enrichment	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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