## **BIOMARK Laboratories-INDIA** www.biomarklabs.com **TECHNICAL SHEET**

B963I FRASER BROTH BASE									
Formula									
Ingredients :	Gm	s/lit.							
Casein enzymic hydrolysate	5.0	-							
Peptic digest of animal tissue	5.00								
Yeast extract	5.00								
Meat extract	5.00								
Sodium chloride	20.00								
Lithium chloride	3.00								
	12.00								
Potassium dihydrogen phosphate	1.35								
Esculin	1.00								
Final pH (at 25°C) : 7.2 <u>+</u> 0.2									
Directions :									
Suspend 54.92 grams (equivalent weig	ht o	f dehvdrated m	edium per litre) in 1000	) 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 1 vial of Fraser Selective									
Supplement (BF117I) and 2 vials of Fraser Supplement (BF002) to 1000 ml medium for primary									
enrichment or 1 vial of each to 500 ml									
desired.									
<b>Warning:</b> Lithium chloride is harmful.	Avoi	d bodily contac	t and inhalation of vapo	urs. On contact with					
skin wash with plenty of water immedi									
Principle :		•							
Casein enzymic hydrolysate, meat extr	act a	and Yeast extra	ct provide nitrogen, vita	mins and minerals.					
Sodium phosphate and potassium phos									
ferric ammonium citrate in the final me									
ferric ions to the medium will detect the reaction.									
Selectivity is provided by the presence			nalidixic, acid and acrifl	avine in the formula.					
The high salt tolerance of Listeria is used as a means to inhibit growth of Enterococci.									
The sample from primary enrichment a									
Differential Agar Base and on Listeria Oxford Medium Base (B889) or Listeria Identification Agar Base									
(PALCAM)(B891). Incubate at $37 \pm 1^{\circ}$	C fo	r 24 ± 2 hours.	Additional incubation at	$t 37 \pm 1 ^{\circ}\text{C}$ for 24 $\pm 2$					
hours is recommended for Listeria spp.	. oth	er than L.mond	cytogenes for recovery	of more species.					
QC Tests – (I)Dehydrated Medium									
Colour :		Cream to yellow							
Appearance :	Homogeneous Free Flowing powder								
(II)Rehydrated medium									
pH (post autoclaving/heating) :	7.2 ± 0.2								
Colour (post autoclaving/heating) :			a)Yellow b) After addition of supplement-Fluoroscent yellow						
Clarity (post autoclaving/heating) :			Clear solution with slight precipitate forms in tubes.						
(III)Q.C. Test Microbiological									
Cultural characteristics observed on	add	lition of BF1171	and BE002 after an inc	ubation at 35-37°C for					
24-48 hours.									
MICROORGANISM (ATCC )	GR	ОМТН	ESCULIN HYDROLYSIS	*					
Listeria monocytogenes (19111)		d-luxuriant	+	,					
Listeria monocytogenes (19112)	good-luxuriant		+						
	good-luxuriant		+ +						
Listeria monocytogenes (19117)									
Listeria monocytogenes (19118)	good-luxuriant Inhibited		+						
Enterococcus faecalis (29212)			-						
Escherichia coli (25922)		ibited	-						
Staphylococcus aureus (25923)	Inh	ibited	-						
Refer disclaimer Overleaf				Page 01 of 02					

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Key: + = blackening of medium										
	* = subculture on Listeria selective agar									
Precautions :	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.									
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. 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 week esculin reaction may be seen after 40 hours incubation for									
	some enterococci.									
Use:	Fraser broth base with added supplements is recommended by ISO committee as primary									
	as well as secondary enrichment for isolation, and enumeration of Listeria monocytogenes									
	from foods and animal feeds.									
Storage:	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.									
Packing:	500 gm. bottle									
Product	Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization					
profile:			,							
-		Preparation (500g)								
B963I	54.92g/l	9.10L	7.2 ± 0.2	Fraser selective	121°C / 15 minutes					
	5,			supplement						
				(BF117I) and						
				Fraser						
				Supplement						
				(BF002)						

## 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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Page 02 of 02