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

B963I FRASER BROTH BA	SE						
Formula							
Ingredients :	Gms/	li+					
Casein enzymic hydrolysate	5.00	IIC.					
Peptic digest of animal tissue	5.00						
Yeast extract	5.00						
Meat extract	5.00						
Sodium chloride	20.00						
Lithium chloride	3.00						
Disodium hydrogen phosphate.2H2O	12.00						
Potassium dihydrogen phosphate	1.35						
Esculin	1.00						
Final pH (at 25°C) : 7.2 <u>+</u> 0.2	1.00						
Directions :							
Suspend 54.92 grams (equivalent weig	aht of d	ehvdrated n	edium ner litre	) in 1000 ml (	distilled water		
Heat if necessary, to dissolve the medi							
for 15 minutes. Cool to 45-50°C and a							
Supplement (BF117I) and 2 vials of Fra							
enrichment or 1 vial of each to 500 ml							
desired.	mearai			ci i nx wen une			
<b>Warning:</b> Lithium chloride is harmful.	Avoid ł	odily conta	t and inhalatio	n of vapours.	On contact with		
skin wash with plenty of water immedi							
Principle :							
Casein enzymic hydrolysate, beef extra	act and	Yeast extra	t provide nitro	gen, vitamins	and minerals.		
Sodium phosphate and potassium phos							
ferric ammonium citrate in the final me	edium.	Since all Lis	teria species h	vdrolvze escul	in, the addition of		
ferric ions to the medium will detect th				,,			
Selectivity is provided by the presence			nalidixic, acid	and acriflaving	e in the formula.		
The high salt tolerance of Listeria is us							
QC Tests – (I)Dehydrated Medium							
Colour :	Cream to yell						
Appearance :			Free Flowing	powder			
(II)Rehydrated medium		mogeneous	Thee Flowing	ponuei			
pH (post autoclaving/heating) :		7.2 ± 0.2					
Colour (post autoclaving/heating) :							
Clarity (post autoclaving/heating) :		Light yellow to yellow Basal medium : Clear solution with slight precipitate. After					
Clarity (post autoclaving/neating) :		addition : clear solution with slight precipitate forms in tubes.					
(III)Q.C. Test Microbiological	au			signt precipit	ate forms in tubes.		
Cultural characteristics observed on	a additic	op of RE117	and REOD2 off	or an incubati	on at 25 270C for		
24-48 hours.	i auuitit		anu bruuz an				
	CROW	/ <b>T</b> U					
MICROORGANISM (ATCC)	GROWTH		ESCULIN HYD	VKUL1313"			
Listeria monocytogenes (19111)	good-luxuriant		+				
Listeria monocytogenes (19112)	good-luxuriant						
Listeria monocytogenes (19117)	good-luxuriant		+				
Listeria monocytogenes (19118)	good-luxuriant		-				
Enterococcus faecalis (29212)	Inhibited		-				
Escherichia coli (25922)	Inhibited		-				
Staphylococcus aureus (25923) Inhibited			-				
Key : + = blackening of medium							
	lective a	agar					
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Drocoutions (	1 For Laboratory								
	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.								
	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				
	-			supplement	-				
				(BF117I) and					
				Fraser					
				Supplement					
				(BF002)					
		I		N.5. 002)					

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