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TECHNICAL SHEET

B1413 LISTERIA FRASER BROTH BASE, HALF CONCENTRATION									
Formula									
Ingredients:	gms/lit.								
Proteose Peptone	5.00								
Tryptone	5.00								
Yeast extract	5.00								
Meat extract B#	5.00								
Sodium chloride	20.00								
Disodium hydrogen phosphate	9.50								
Potassium Dihydrogen phosphate	1.35								
Aesculin	1.00								
Lithium Chloride	3.00								
Nalidixic acid	0.010								
Acriflavine hydrochloride (Trypaflavine)	0.0125								
# Equivalent to Beef Extract									
Final pH (at 25°C): 7.2 + 0.2									
Directions:									
Suspend 27.4 gms. in 500ml. distilled wate	r. Heat if nece	essary to dissolve the me	ediu	m comp	oletely. Sterilize				
by autoclaving at 15 lbs pressure (121°C) for	or 15 minutes.	Cool to room temperatu	ire a	nd add	the contents of				
one vial of Fraser Supplement (BF002). Mix	well and pour	into sterile tubes or plate	es.						
Principle:									
This medium contains tryptone, yeast extra	ict and beef ex	xtract which provide ess	entia	al nutrie	ents like carbon				
and nitrogenous compounds including vita	mins, amino	acids and trace ingredi	ents	. Phos	sphates provide				
buffering action to the medium while sodi	ium chloride r	naintains osmotic equili	briu	m. Na	lidixic acid and				
acriflavine inhibits the growth of gram - neg	gative and gra	m – positive organisms	resp	ectively	except Listeria				
species.									
QC Tests – (I)Dehydrated Medium									
Colour: C	Cream to light yellow								
Appearance:	Homogeneous Free Flowing powder								
(II)Rehydrated medium									
pH (post autoclaving/heating): 7	'.2 ± 0.2								
Colour (post autoclaving/heating): Y	Yellow coloured solution with bluish tinge								
Clarity (post autoclaving/heating):	Clear to slightly opalescent								
(III) O.C. Test Microbiological									
Cultural characteristics observed after 24-48 hours at 35- 37°C									
MICROORGANISM (ATCC)	ROWTH	ESCULIN							
		HYDROLYSIS*							
Listeria monocytogenes (19118)	uxuriant	+							
Stanhylococcus aureus (25923) In	hibited	-							
Escherichia coli (25922)	hihited	-							
Enterococcus faecalis (29212)	hibited	-							
K_{0V} = blackoping of modium	IIIDIteu								
* – subcultured on Listeria selective agar									
Subcultured on Eisterna selectiv									
FIECAULIONS: <u>I. FULLADUIALOIYUSE.</u> 2. Follow proper establis	Eautions . [1. FUL Laboration of physical physic								
2. Follow proper, established laboratory procedures in nandling and disposing of infectio									
Inductions.									
Limitations : [1. Since the nutritional requirements of organisms vary, some strains may be encour									
Inactal to grow or grow poorly on this mealum.									

Refer disclaimer Overleaf

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Use:	For selective e ISO11133-2:200	nrichment of Lister)3	ia species a	as per ISO11	290-1:1997 &				
Storage:	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.								
Packing:	500 gm. bottle								
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization				
B1413	54.8 g/l	9.12 lit	7.2 ± 0.2	Fraser supplement (BF002)	121ºC/15 min				

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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