BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1318	BUFFERED LISTERIA E	BUFFERED LISTERIA ENRICHMENT BROTH BASE					
Formula							
Ingredients:		gms/litre					
Casein enzymic hydrolysate		17.00					
Papaic digest of soyabean meal		3.00					
Sodium chloride		5.00					
Dipotassium hydrogen phosphate		2.50					
Dextrose		2.50					
Yeast extract		6.00					
Monopotassium phosphate, anhydrous		1.35					
Disodium phosphate, anhydrous		9.60					
Sodium pyruvate		1.00					
Final pH (at	25°C): 7.3 <u>+</u> 0.2						
Directions							

Suspend 23.97 grams in 500 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°C. Aseptically add the rehydrated contents of 1 vial of Listeria Selective Supplement II (BF075I). Mix well and dispense as desired.

Principle:

Casein enzymic hydrolysate and papaic digest of soyabean meal provide amino acids and other complex nitrogenous substances. Dextrose is the energy source. Sodium pyruvate aids in resuscitation of organisms. The phosphates provide buffering capacity. Sodium chloride maintains the osmotic equilibrium. Yeast extract provides vitamin B complex. The medium is rendered selective due to the inclusion of antimicrobial agents. Nalidixic acid inhibits the growth of gram-negative organisms, whereas acriflavin cuppresses growth of gram-nositive microorganisms

Colour: Cream to yellow	suppresses gro	wth of gram-pos	sitive microorg	janisn	ns					
Appearance: Homogeneous Free Flowing powder	QC Tests - (I)Dehydrated Medium									
International Color (post autoclaving/heating): 7.3 ± 0.2 7.	Colour:	Colour:			Cream to yellow					
pH (post autoclaving/heating): 7.3 ± 0.2	Appearance:			Hom	Homogeneous Free Flowing powder					
Colour (post autoclaving/heating): Yellow Clarity (post autoclaving/heating): Clear to slightly opalescent solution with slight precipitate (III)Q.C. Test Microbiologica Cultural characteristics observed after24-48 hours at 30°C. ORGANISM (ATCC) GROWTH Escherichia coli (25922) Inhibited Listeria innocua (33090) Good-luxuriant Listeria monocytogenes (19111) Good-luxuriant Listeria monocytogenes (19112) Good-luxuriant Listeria monocytogenes (19118) Good-luxuriant Listeria monocytogenes (19118) Good-luxuriant Staphylococcus aureus (25923) none-poor Saccharomyces cerevisiae (9763) none-poor Precautions: 1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. Limitations: 1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. Use: It is recommended by FDA Committee for enrichment in isolation of Listeria monocytogenes Storage: Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C. Packing: 500 gm. bottle Product Reconstitution Quantity on pH Supplement Sterilization	(II)Rehydrated medium									
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B1318

47.94 g/l

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.

10.42 L

 7.3 ± 0.2 Listeria

Supplement II (BF075I)

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Selective 121°C / 15

minutes