

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B893	LISTERIA ENRICHMENT BROTH, MODIFIED				
Formula					
Ingredients :		gms/lit.			
Tryptose		10.00			
Yeast extract		5.00			
Beef extract		5.00			
Sodium chloride		20.00			
Disodium hydrogen phosphate		9.60			
Monopotassium hydrogen phosphate		1.35			
Esculin		1.00			
Nalidixic acid		0.02			
Acriflavin hydrochloride (Trypaflavin)		0.012			
Final pH (at 25°C) : 7.2 ± 0.2					
Directions :					
Suspend 51.98 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Dispense in tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
Principle :					
This medium contains tryptone, yeast extract and beef extract which provide essential nutrients like carbon and nitrogenous compounds including vitamins, amino acids and trace ingredients. Phosphates provide buffering action to the medium while sodium chloride maintains osmotic equilibrium. Nalidixic acid and acriflavin inhibits the growth of gram – negative and gram – positive organisms respectively except Listeria species.					
QC Tests – (I) Dehydrated Medium					
	Colour :	Cream to light yellow			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	7.2 ± 0.2			
	Colour (post autoclaving/heating) :	Yellow coloured solution with bluish tinge			
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
	Cultural characteristics observed after 24-48 hours at 35- 37°C.				
	MICROORGANISM (ATCC)	GROWTH			
	Escherichia coli (25922)	Inhibited			
	Listeria monocytogenes (19111)	luxuriant			
	Listeria monocytogenes (19112)	luxuriant			
	Listeria monocytogenes (19117)	luxuriant			
	Listeria monocytogenes (19118)	luxuriant			
	Staphylococcus aureus (25923)	Inhibited			
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 :	For selective enrichment of Listeria species.				
Storage :	Dehydrated medium and prepared medium– Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B893	51.98 g/l	9.61 lit	7.2 ± 0.2	Nil	121°C/15 min