

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	
Meat Extract B#	5.00	
Sodium chloride	20.00	
Disodium hydrogen phosphate	9.60	
Potassium dihydrogen phosphate	1.35	
Esculin	1.00	
Nalidixic acid	0.02	
Acriflavin hydrochloride (Trypaflavin)	0.012	
#- Equivalent to Beef extract		
Final pH (at 25°C) : 7.2± 0.2		
Directions :		
Suspend 51.98 grams in 1000 ml purified / 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. Cool to 45-50°C.		
Principle :		
This medium contains tryptone, yeast extract and Meat Extract B 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. For enrichment, 25 gram or 25 ml sample is added to 225 ml medium in a stomacher bag. Homogenize the material if required. Incubation is carried out at 30°C for upto 7 days and the sample is subcultured on Listeria Selective Agar (B097) after 1, 2 and 7 days.		
Type of specimen : Food and dairy samples		
Specimen Collection and Handling:		
For food and dairy samples, follow appropriate techniques for sample collection and processing as per standard and current guidelines of food and dairy microbiology.		
After use, contaminated materials must be sterilized by autoclaving before discarding.		
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	
Warning & Precautions :	1. For In vitro diagnostic Use. By professionals only.	
	2. Read the label carefully before opening the container. Wear PPE wares. Follow established good microbiology laboratory practices while handling specimens and cultures and take standard precautions for handling clinical specimens.	
	3. For safety guidelines refer individual safety data sheet.	

Refer disclaimer Overleaf

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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. Further biochemical identification of organisms is required for confirmation.				
Use:	For selective enrichment of <i>Listeria</i> species.				
Storage:	Dehydrated medium and prepared medium– Between 2 to 8°C.				
Disposal:	Ensure safe disposal by autoclaving/or incineration of used or usable preparation of this product. Follow established laboratory procedures while disposing all infectious material and those coming in contact must be decontaminated and disposed off with existing laboratory technics.				
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 ⁰ C/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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