BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B892	**LISTERIA ENRICHMENT MEDIUM (UVM)**

Formula

Ingredients :	**gms/lit.**
Casein enzymic hydrolysate	5.00
Proteose peptone	5.00
Meat extract B#	5.00
Yeast extract	5.00
Sodium chloride	20.00
Monopotassium dihydrogen phosphate	1.35
Disodium hydrogen phosphate	12.00
Esculin	1.00
Nalidixic acid	0.02

#- Equivalent to Beef extract

Final pH (at 25°C) : 7.4 ± 0.2

Directions :

Suspend 54.37 gms.in 1000ml. distilled water.Heat to boiling to dissolve the medium completely.Sterilize by autoclaving at 15 lbspressure (121°C) for 15 minutes. Cool to 50°C and aseptically add filter sterilized solution of acriflavin hydrochloride to a final concentration of 12 mg per litre of medium or 25 mg per litre as per the requirement.

Principle :

Casein enzymic hydrolysate, proteose peptone, beef extract and yeast extract provide necessary nutrients while esculin offers differential properties to the medium. Nalidixic acid and acriflavin hydrochloride together with higher concentration of phosphate render the medium selective for Listeria, as the gram – negative and gram – positive organisms are inhibited by Nalidixic acid and acriflavin hydrochloride respectively.

QC Tests – (I)Dehydrated Medium		
	Colour :	Cream to yellow
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	7.4 ± 0.2
	Colour (post autoclaving/heating) :	Medium amber
	Clarity (post autoclaving/heating) :	Slightly opalescent
(III) Q.C. Test Microbiological		
	Cultural characteristics observed after 24- 48 hours at 35-37°C.	
	MICROORGANISM (ATCC)	GROWTH
	Listeria monocytogenes (19118)	Good – luxuriant
	Escherichia coli (25922)	None – poor
	Staphylococcus aureus (25923)	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 :	For selective isolation and cultivation of Listeria monocytogenes from clinical specimens.
Storage :	Dehydrated medium andprepared medium– Between 2 to 8°C.
Packing :	500 gm. bottle

Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B892	54.37 g/l	9.19 lit	7.4 ± 0.2	acriflavin hydrochloride	121^0C/15 min

Refer disclaimer Overleaf

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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