

TECHNICAL SHEET

B1339	LISTERIA ENRICHMENT BROTH BASE				
Formula					
Ingredients :		gms/lit.			
Casein enzymic hydrolysate	5.00				
Proteose peptone	5.00				
Meat extract	5.00				
Yeast extract	5.00				
Sodium chloride	20.00				
Disodium hydrogen phosphate	12.00				
Potassium dihydrogen phosphate	1.35				
Aesculin	1.00				
Final pH (at 25°C) : 7.4 ± 0.2					
Directions :					
Suspend 55.0 gms.in 1000ml. distilled water.Heat to boiling to dissolve the medium completely.Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add Listeria supplement 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- 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
B1339	55 g/l	9.09 lit	7.4 ± 0.2	Nil	121°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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