BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B636	**MODIFIED MCBRIDE LISTERIA AGAR BASE**
Formula	
Ingredients :	**gms/lit.**
Casein enzymichydrolysate	5.00
Peptic digest of animal tissue	5.00
Meat extract B#	3.00
Sodium chloride	5.00
Glycine anhydride	10.00
Lithium chloride	0.50
Phenyl ethanol	2.50
Agar	15.00
#- Equivalent to Beef extract	
Final pH (at 25°C) : 7.3 ± 0.2	

Directions :

Suspend 46 gms. in 1000ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool below 50°C. Before gelling, aseptically add sterile defibrinated blood to a final concentration of 5% v/v and add rehydrated contents of 1 vial of McBride Listeria Supplement. Mix well and pour into sterile petri plates.

Principle :

Casein enzymichydrolysate, MeatextractB in the medium supply nitrogen, carbon, sulphur and trace nutrients required for the growth of Listeria. Phenylethylalcohol is bacteriostatic for gram – negative bacteria as it selectively inhibits DNA synthesis. Glycine inhibits certain gram – negative and gram – positive bacteria including E.coli and Enterococcus faecalis. Lithium chloride also has antibacterial activity.

QC Tests – (I)Dehydrated Medium				
	Colour :	Yellow		
	Appearance :	Homogeneous Free Flowing powder		
(II)Rehydrated medium				
	pH (post autoclaving/heating) :	7.3 ± 0.2		
	Colour (post autoclaving/heating) :	Light amber		
	Clarity (post autoclaving/heating) :	Clear to very slightly opalescent		
(III)Q.C. Test Microbiological				
	Cultural characteristics observed after 24- 48 hrs.at 35-37°C, in anaerobic atmosphere.			
	MICROORGANISM (ATCC)	GROWTH*	GROWTH**	
	Listeria monocytogenes (19112)	Good to luxuriant	Good – luxuriant	
	Escherichia coli (25922)	None - poor	None - poor	
	Pseudomonas aeruginosa (27853)	None - poor	None - poor	
	Enterococcus faecalis (29212)	None - poor	None - poor	
	Key : * = with the addition of supplement (200mcg/ml Cycloheximide) **= with the addition of 5% v/v blood			

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 food –stuffs, clinical samples etc.
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
B636	46g/l	10.869L	7.3 ± 0.2	sterile defibrinated blood ,1 vial of McBride Listeria Supplement	121^{0}C / 15 minutes

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