

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°C / 15 minutes

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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

BIOMARK Laboratories-INDIA

www.biomarklabs.com

TECHNICAL SHEET