

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B616</b>	<b>MCBRIDE LISTERIA AGAR BASE</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Tryptose		10.00			
MeatextractB#		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					
<b>Directions :</b>					
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.					
<b>Principle :</b>					
Meat extract B 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.					
<b>QC Tests – (I)Dehydrated Medium</b>					
Colour :		Yellow			
Appearance :		Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.3 ± 0.2			
Colour (post autoclaving/heating) :		Light amber			
Clarity (post autoclaving/heating) :		Clear to very slightly opalescent			
<b>(III)Q.C. Test Microbiological</b>					
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					
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>	For selective isolation and cultivation of Listeria monocytogenes from food –stuffs, clinical samples etc.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.				
<b>Packing :</b>	500 gm bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B616</b>	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.

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