

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1416	LISTERIA OXFORD AGAR BASE	
Formula		
Ingredients:	gms/lit.	
Columbia Agar Base	41.00	
Lithium chloride	15.00	
Eesculin	1.00	
Ferric ammonium citrate	0.50	
Final pH (at 25°C): 7.0 ± 0.2		
Directions:		
Suspend 28.70 grams in 500ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add the rehydrated contents of 1 vial Oxford Listeria Supplement (BF073) or Listeria Moxalactam supplement (BF074). Mix well before pouring into sterile petri plates.		
Principle:		
Peptone is the source of nutrition. Lithium chloride and the antibiotics inhibit gram- negative bacteria and most gram – positive organisms but certain strains of Staphylococci may grow as esculin negative colonies. Listeria monocytogenes hydrolyzes Aesculin to esculation and dextrose. Esculatin reacts with ferric ions and produces black zones around the colonies.		
QC Tests – (I)Dehydrated Medium		
	Colour:	Yellow to dark yellow
	Appearance:	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating):	7.0 ± 0.2
	Colour (post autoclaving/heating):	Amber to dark amber
	Clarity (post autoclaving/heating):	Clear
(III) Q.C. Test Microbiological		
Cultural characteristics observed after 24- 48 hours at 35-37°C with added Oxford Listeria Supplement (BF073) or Listeria Moxalactam supplement (BF074).		
MICROORGANISM (ATCC)	GROWTH	AESCULIN HYDROLYSIS
Listeria monocytogenes (19117)	Luxuriant	+
Listeria monocytogenes (19111)	Luxuriant	+
Listeria monocytogenes (19112)	Luxuriant	+
Staphylococcus aureus (25923)	Good	-
Enterococcus faecalis (29212)	Inhibited	-
Enterococcus hirae (10541)	Inhibited	-
Bacillus subtilis (6633)	Inhibited	-
Key : + = black zone around colonies		

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Precautions :	1. For Laboratory Use.				
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
	3. HARMFUL. Possible risk of irreversible effects. Possible risk of harm to the unborn child. Harmful if swallowed. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. Target organ(s) : Cardiovascular, Liver, Lungs, Nerves.				
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 isolation of Listeria species from pathological specimens. Recommended by 12560/ISO10560				
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
B1416	57.40 g/l	8.710 L	7.0 ± 0.2	Oxford Listeria Supplement (BF073) or Listeria Moxalactam supplement (BF074)	121°C/15 min