

B889	LISTERIA OXFORD MEDIUM BASE				
Formula					
Ingredients :		gms/lit.			
Peptone, special		23.00			
Lithium chloride		15.00			
Sodium chloride		5.00			
Corn starch		1.00			
Esculin		1.00			
Ammonium ferric citrate		0.50			
Agar		10.00			
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 27.75 grams in 500 ml 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 of Oxford Listeria Supplement, modified (BF073) or 1 vial of Listeria Moxalactam Supplement (BF074). Mix well before pouring into sterile Petri plates.					
Principle :					
Peptone special serves as the source of essential nutrients to the organisms. Corn starch serves to neutralize the toxic metabolites formed. 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. L. monocytogenes hydrolyzes esculin to esculetin and dextrose. Esculetin reacts with ferric ions and produces black zones around the colonies.					
QC Tests – (I)Dehydrated Medium					
	Colour :	Light 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 to slightly opalescent gel with a blue cast			
(III) Q.C. Test Microbiological					
	Cultural characteristics observed with added Oxford Listeria Supplement (BF073) or Listeria Moxalactam supplement (BF074), after an incubation at 35-37°C for 24-48 hours.				
	MICROORGANISM (ATCC)	GROWTH	ESCULIN 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	-		
	Escherichia coli (25922)	Inhibited	-		
	Key : + = blackening of medium around the colony				
Precautions :	<ol style="list-style-type: none"> For Laboratory Use. Follow proper, established laboratory procedures in handling and disposing of infectious materials. Lithium chloride is harmful. Avoid bodily contact and inhalation of vapours. On contact with skin, wash with plenty of water immediately. 				
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.				
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
B889	55.50 g/l	9.00 lit	7.0 ± 0.2	Oxford Listeria Supplement (BF073) or (BF074)	121°C/15 min