

TECHNICAL SHEET

B891	LISTERIA IDENTIFICATION AGAR BASE (PALCAM)				
Formula					
Ingredients :		gms/lit.			
Peptic digest of animal tissue		23.00			
Starch		1.00			
Sodium chloride		5.00			
Mannitol		10.00			
Ammonium ferric citrate		0.50			
Esculin		0.80			
Dextrose		0.50			
Lithium chloride		15.00			
Phenol red		0.08			
Agar		13.00			
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 69 gms. in 1000ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to around 50°C and aseptically add rehydrated contents 1 vial of Listeria Selective Supplement (PALCAM) (BF072). Mix well and pour into sterile petri plates.					
Principle :					
Peptic digest of animal tissue acts as a source of nutrients. PALCAM medium is highly selective due to the presence of lithium chloride. Ceftazidime, Polymyxin B and acriflavine hydrochloride. PALCAM medium is a differential diagnostic medium utilizing two indicator systems, as esculin - ferric citrate and mannitol - phenol red. Agar is the solidifying agent.					
QC Tests – (I)Dehydrated Medium					
	Colour :	Light pink			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	7.0 ± 0.2			
	Colour (post autoclaving/heating) :	Red			
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
	Cultural characteristics observed after 48 hours at 35-37°C, in microaerophilic condition.				
	MICROORGANISM (ATCC)	GROWTH	COLONY CHARACTERISTICS		
	Listeria monocytogenes (19112)	Luxuriant	Grey-green with black centre and a black halo		
	Staphylococcus aureus (25923)	None – poor	Yellow colonies with yellow halo.		
	Enterococcus faecalis (29212)	None – poor	Grey colonies with a brown-green halo.		
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 selective isolation and identification of Listeria species.			
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
B891		69 g/l	7.24 lit	7.0 ± 0.2	Listeria Selective Supplement (PALCAM) (BF072) 121 ⁰ C/15 min

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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