

B1132	LISTERIA IDENTIFICATION AGAR BASE, MODIFIED (PALCAM)					
Formula						
Ingredients :		gms/lit.				
Peptone		23.00				
Yeast extract		3.00				
Sodium Chloride		5.00				
Starch		1.00				
D (-) 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) : 7.2 ± 0.2						
Directions :						
Suspend 71.88 gms. in 1000ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbspressure (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. Cefprozil, 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) :		7.2 ± 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
B1132	71.88 g/l	6.95 lit	7.2 ± 0.2	Listeria Selective Supplement (PALCAM)	121°C/15 min	

Disclaimer:

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