

**BIOMARK Laboratories – INDIA**

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**TECHNICAL SHEET**

<b>B1374</b>	<b>Mac Conkey Agar with Sodium Chloride</b>
<b>Formula</b>	
<b>Ingredients :</b>	<b>gms/lit.</b>
Peptic digest of animal tissue	20.00
Lactose	10.00
Bile Salts	5.00
Sodium chloride	5.00
Neutral red	0.05
Agar	13.50
Final pH (at 25°C) : 7.1± 0.2	
<b>Directions :</b>	
Suspend 53.50 g of medium in 1000 ml. distilled water. Heat to boiling with gentle swirling to dissolve the agar completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Avoid overheating. Cool to 45 – 50°C and pour into sterile petri plates. The surface of the medium should be dry when inoculated.	
<b>Principle:</b> Peptic digest of animal tissue is sources of nitrogen and other nutrients. Lactose is a fermentable carbohydrate. When lactose is fermented, a local pH drop around the colony causes a colour change in the pH indicator (neutral red) Bile saltis selective agents that inhibit growth of gram –positive organisms. Agar is a solidifying agent.	

<b>QC Tests – (I)Dehydrated Medium</b>			
Colour :	Pinkish beige		
Appearance :	Homogeneous Free Flowing powder		
<b>(II)Rehydrated medium</b>			
pH (post autoclaving/heating) :	7.1 ± 0.2		
Colour (post autoclaving/heating) :	Orange red		
Clarity (post autoclaving/heating) :	slightly opalescent		
<b>(III) Q.C. Test Microbiological</b>			
Cultural characteristics observed after 18 – 24 hours at 35- 37°C.			
MICROORGANISM (ATCC )	GROWTH	COLOUR OF COLONY	
Enterobacteraerogenes (13048)	good-luxuriant	Pink to red	
Escherichia coli (25922)	good-luxuriant	Pink to red with bile precipitate	
Proteus vulgaris (13315 )	good-luxuriant	Colourless	
Salmonella enteritidis (13076 )	good-luxuriant	Colourless	
Salmonella typhi ( 6539 )	good-luxuriant	Colourless	
Salmonella paratyphi A(9150)	good-luxuriant	Colourless	
Salmonella paratyphi B(8759)	good-luxuriant	Colourless	
Shigella flexneri (12022)	good-luxuriant	Colourless	
Enterococcus faecalis (29212)	Fair to good	pale pink-red	
Staphylococcus aureus (25923)	Fair to good	pale pink-red	
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.		

Refer disclaimer overleaf

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<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.				
	2. Although MacConkey media are selective primarily for gram – negative enteric bacilli, biochemical and, if indicated, serological testing using pure cultures are recommended for complete identification. Consult appropriate references for further information.				
	3. Incubation of MacConkey Agar plates under increased CO <sub>2</sub> has been reported to reduce the growth and recovery of a number of strains of gram – negative bacilli.				
<b>Use :</b>	For selective isolation and differentiation of lactose fermenting and lactose non-fermenting enteric bacteria.				
<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>B1374</b>	53.50 g/L	9.345 L	7.1± 0.2	NIL	121 <sup>0</sup> 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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