

BIOMARK Laboratories – INDIA
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CAL SHEET

B1804		MacConkeys Agar w/o sodium chloride, w/ Sodium pyruvate			
Formula					
Ingredients:		gms/lit.			
Peptic digest of animal tissue		15.00			
Meat extract powder		2.00			
Yeast extract powder		3.3			
Sodium pyruvate		2.00			
Lactose		15.00			
Bile salt		4.5			
Neutral red		0.05			
Agar		12.0			
Final pH(at25°C):		7.4±0.2			
Directions:					
Suspend 54g of medium in 1000ml. 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.					
Principle: Peptic digest of animal tissue is sources of nitrogen and other nutrients. Lactose is a fermentable carbohydrate. When lactose is fermented, a local pH drops around the colony causes a colour change in the pH indicator (neutral red) Bile salt is selective agents that inhibit growth of gram –positive organisms. Agar is a solidifying agent.					
QCTests – (I) Dehydrated Medium					
	Colour:	Pinkish beige			
	Appearance:	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	7.4±0.2			
	Colour (post autoclaving/heating):	Orangered			
	Clarity (post autoclaving/heating):	slightly opalescent			
(III) Q.C. Test Microbiological					
	Cultural characteristics observed after 18–24 hours at 35-37°C.				
	MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY		
	Enterobacter aerogenes (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	good-luxuriant	Colourless		
	Salmonella paratyphi B	good-luxuriant	Colourless		
	Shigella flexneri (12022)	good-luxuriant	Colourless		
	Enterococcus faecalis (29212)	None to poor	Pale pink to red		
	Staphylococcus aureus (25923)	None to poor	Pale pink to red		
Precautions:		1. For Laboratory Use.			
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.			

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Limitations :	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 ₂ has been reported to reduce the growth and recovery of a number of strains of gram-negative bacilli.				
Use:	For cultivation and differentiation of enteric bacteria, restricting swarming of Proteus species from specimens like urine which may contain large number of Proteus species as well as potentially pathogenic gram-positive organisms.				
Storage:	Dehydrated medium – below 30°C Prepared medium – Between 2 to 8°C.				
Packing:	500gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1373	54 g/L	9.25L	7.4 ± 0.2	NIL	121°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 BIOMARK LABORATORIES publications.

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