

BIOMARK Laboratories – INDIA

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TECHNICAL SHEET

B242	Mac Conkey Agar w/o CV, w/0.5% Bile Salt
Formula	
Ingredients :	gms/lit.
Peptone	20.00
Lactose	10.00
Bile Salts	5.00
Sodium chloride	5.00
Neutral red	0.075
Agar	12.00
Final pH (at 25°C) : 7.4± 0.2	
Directions :	
Suspend 52.075 grams in 1000 ml purified/ 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. Mix well and pour into sterile Petri plates. The surface of the medium should be dry when inoculated.	
Principle: Peptone and proteose peptone serves as a source of carbon, nitrogen, long chain amino acids and other essential growth nutrients. The selective action of this medium is attributed to bile salts, which is inhibitory to most species of gram-positive bacteria. Gram-negative bacteria usually grow well on the medium and are differentiated by their ability to ferment lactose. Lactose fermenting strains grow as red or pink colonies. The red colour is due to production of acid from lactose, absorption of neutral red and a subsequent colour change of the dye when the pH of medium falls below 6.8. Lactose non-fermenting strains, such as Shigella and Salmonella are colourless and transparent and typically do not alter appearance of the medium.	

QC Tests – (I) Dehydrated Medium		
Colour :	Light yellow to pink	
Appearance :	Homogeneous Free Flowing powder	
(II) Rehydrated medium		
pH (post autoclaving/heating) :	7.4 ± 0.2	
Colour (post autoclaving/heating) :	Orange red	
Clarity (post autoclaving/heating) :	Clear to 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)	Luxuriant	Pink to red
Escherichia coli (25922)	Luxuriant	Pink to red with bile precipitate
Proteus vulgaris (13315)	Luxuriant	Colourless
Salmonella enteritidis (13076)	Luxuriant	Colourless
Salmonella typhi (6539)	Luxuriant	Colourless
Salmonella paratyphi A	Luxuriant	Colourless
Salmonella paratyphi B	Luxuriant	Colourless
Shigella flexneri (12022)	Fair to good	Colourless
Enterococcus faecalis (29212)	Fair to good	Pale pink to red
Staphylococcus aureus (25923)	Fair to good	Pale pink to red
Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.	

Refer disclaimer Overleaf

Page 01 of 02

Rev: December 2020

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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. It is advised to incubate for recommended period and temperature to avoid misinterpretation of results.				
Use :	MacConkey Agar w/o CV w/ 0.5% Bile Salts is recommended for the isolation and differentiation of lactose fermenting and lactose non-fermenting enteric bacteria.				
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
B242	52.075 g/L	9.602L	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 BIOMARKLABORATORIES publications.

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