

**TECHNICAL SHEET**

<b>SB003</b>	<b>MacConkey Agar w/o CV, NaCl w/ 0.5% Sodium Taurocholate</b>	
<b>Formula</b>		
<b>Ingredients:</b>	<b>gms/lit.</b>	
Peptic digest of animal tissue	20.00	
Lactose	10.00	
Sodium taurocholate	5.00	
Neutral red	0.04	
Agar	20.00	
<b>Directions:</b>		
MacConkey Agar is a ready to use solid media in glass bottle. The medium is pre-sterilized; hence it does not need sterilization. Medium in the bottle can be melted either by using a pre-heated water bath or any other method. Slightly loosen the cap before melting. When complete melting of medium is observed dispense the medium as desired and allowed to solidify.		
<b>Principle:</b>		
MacConkey Agar is the earliest selective and differential medium for cultivation of enteric microorganisms from a variety of clinical specimens. Peptone is source of nitrogen and other nutrients. Lactose is a fermentable carbohydrate. When lactose is fermented, a local pH drops around the colony causes a color change in the pH indicator (neutral red) Sodium taurocholate is selective agents that inhibit growth of gram -positive organisms. Lactose fermenting strains grow as red or pink and may be surrounded by a zone of acid precipitated bile. The red color is due to production of acid from lactose, absorption of neutral red and a subsequent color change of the dye when the pH of medium falls below 6.8. Lactose non-fermenting strains, such as Shigella and Salmonella are colorless and transparent and typically do not alter appearance of the medium. Yersinia enterocolitica may appear as small, non-lactose fermenting colonies after incubation at room temperature.		
<b>(I) QC Tests</b>		
pH:	7.4 ± 0.2	
Color:	Orange red coloured medium.	
Appearance:	Sterile glass bottle containing slightly opalescent MacConkey Agar w/o CV, NaCl, w/0.5% Sodium Taurocholate.	
<b>(II) Sterility test</b>		
Passes release criteria		
<b>(III) Q.C. Test Microbiological</b>		
Cultural characteristics after melting the medium and pouring into sterile petri plates. The plates are inoculated with following test organisms and incubated at 35 -37°C for 18-24 hours.		
MICROORGANISM (ATCC)	GROWTH	COLOR OF COLONY
Escherichia coli 25922	luxuriant	pink to red with bile precipitate
Enterobacter aerogenes 13048	luxuriant	Pink to Red
Enterococcus faecalis 29212	Fair to good	Pale Pink to Red
Proteus vulgaris 13315	inhibited	Colorless
Staphylococcus aureus 25923	Fair to good	Pale Pink to Red
Shigella flexneri 12022	Fair to good	Colorless
Salmonella Enteritidis 13076	luxuriant	Colorless
Salmonella Typhi 6539	luxuriant	Colorless

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<b>Precautions :</b>	1. In Vitro diagnostic use only. 2. Read the label before opening the container
<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.
<b>Use:</b>	For cultivation and differentiation of enteric bacteria, restricting swarming of Proteus species from specimens such as urine which may contain large number of Proteus species as well as potentially pathogenic gram-positive organisms.
<b>Storage:</b>	Store between 15-25°C. Use before expiry date on the label.
<b>Packing:</b>	100ml/500ml of medium in sterile glass bottle.

**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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