

TECHNICAL SHEET

SB002	MacConkey Agar w/ 0.15% Bile Salts, CV and NaCl	
Formula		
Ingredients:	gms/lit.	
Peptone	1.50	
Tryptone	1.50	
Gelatin peptone	17.00	
Lactose	10.00	
Bile salts	1.50	
Sodium chloride	5.00	
Neutral red	0.03	
Crystal violet	0.001	
Agar	15.00	
Directions:		
MacConkey Agar w/ 0.15% Bile Salts, CV and NaCl 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.		
Principle:		
MacConkey agars are slightly selective and differential plating media mainly used for the detection and isolation of gram-negative organisms from clinical, dairy, food, water, pharmaceutical and industrial sources. Peptone, Tryptone and gelatin peptone are sources of nitrogen, carbon, long chain amino acids and other nutrients. Lactose is a fermentable carbohydrate; Sodium chloride maintains the osmotic equilibrium. Bile salts and crystal violet are selective agents that inhibit growth of gram-positive organisms. Neutral red is the pH indicator dye. Lactose-fermenting strains grow as red or pink colonies 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, transparent and typically do not alter appearance of the medium.		
(I) QC Tests		
pH:	7.1 ± 0.2	
Color:	Red with purplish tinge coloured medium	
Appearance:	Sterile glass bottle containing slightly opalescent MacConkey Agar w/ 0.15% Bile Salts, CV and NaCl.	
(II) Sterility test	Passes release criteria	
(III) Q.C. Test Microbiological		
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	Colorless to pale pink
Staphylococcus aureus 25923	inhibited	-
Salmonella Enteritidis 13076	luxuriant	Colorless
Salmonella Typhi 6539	luxuriant	Colorless
Proteus vulgaris 13315	luxuriant	Colorless
Shigella flexneri 12022	Fair to good	Colorless to pale pink
S. serotype paratyphi A 9150	luxuriant	Colorless

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Precautions :	1. In Vitro diagnostic use only. 2. Read the label before opening the container
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 differentiation of coliform organisms and other enteric pathogens.
Storage:	Store between 15-25°C. Use before expiry date on the label.
Packing:	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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