

TECHNICAL SHEET

PP011	MacConkey Agar w/ 0.15% Bile Salts, CV and NaCl Plate				
Formula					
Ingredients:		gms/lit.			
Peptone		1.50			
Tryptone		1.50			
Gelatin peptone		17.0			
Lactose		10.0			
Bile salts		1.50			
Sodium chloride		5.00			
Neutral red		0.03			
Crystal violet		0.001			
Agar		15.00			
Final pH (at 25°C): 7.1 ± 0.2					
Directions:					
Label the ready to use plate (PP011). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.					
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 MacConkey Agar w/o 15% Bile salts, CV and NaCl Agar in 85 mm disposable plate.			
(II) Sterility test		Passes release criteria			
(III) Q.C. Test Microbiological					
Cultural response was observed after an incubation at 30-35°C for 18-72 hours.					
	MICROORGANISM (ATCC)	INOCULUM (CFU)	GROWTH	RECOVERY	COLOUR OF COLONY
	Escherichia coli 25922	50 -100	luxuriant	≥50 %	pink to red with bile precipitate
	Escherichia coli NCTC 9002	50 -100	luxuriant	≥50 %	pink to red with bile precipitate
	Enterobacter aerogenes 13048	50 -100	luxuriant	≥50 %	Pink to Red
	Enterococcus faecalis 29212	50 -100	Fair to good	30 -40 %	Colorless to pale pink
	Salmonella Typhimurium 14028	50 -100	luxuriant	≥50 %	Colourless
	Staphylococcus aureus 6538	≥10 ³	inhibited	≤0 %	-
	Staphylococcus aureus 25923	≥10 ³	inhibited	≤0 %	-
	Salmonella Enteritidis 13076	50 -100	luxuriant	≥50 %	Colorless

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Salmonella Paratyphi (A) 9150	50 -100	luxuriant	≥50 %	Colorless
Salmonella Paratyphi (B) 8759	50 -100	luxuriant	≥50 %	Colorless
Salmonella Typhi6539	50 -100	luxuriant	≥50 %	Colorless
Salmonella Abony NCTC 6017	50 -100	luxuriant	≥50 %	Colorless
Proteus vulgaris 13315	50 -100	luxuriant	≥50 %	Colorless
Shigella flexneri 12022	50 -100	Fair to good	30 -40 %	Colorless to pale pink
Staphylococcus epidermidis 12228	≥10 ³	inhibited	≤0 %	-
Corynebacterium diphtheriae type gravis	≥10 ³	inhibited	≤0 %	-

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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:	20/50 disposable plates.

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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