

**TECHNICAL SHEET**

<b>PP012 MacConkey Agar w/o CV, NaCl w/ 0.5% Sodium Taurocholate Plate</b>					
<b>Formula</b>					
<b>Ingredients:</b>		<b>gms/lit.</b>			
Peptic digest of animal tissue 20.000					
Lactose 10.000					
Sodium taurocholate 5.000					
Neutral red 0.040					
Agar 20.000					
Final pH (at 25°C): 7.4± 0.2					
<b>Directions:</b>					
Label the ready to use plate (PP012).Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.					
<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 MacConkey Agar w/o CV, NaCl, w/0.5% Sodium Taurocholate in 90X15 mm disposable plate.			
<b>(II) Sterility test</b>		Passes release criteria			
<b>(III) Q.C. Test Microbiological</b>					
	Cultural response was observed after an incubation at 30-35°C for 18-72 hours.				
	MICROORGANISM (ATCC)	INOCULUM (CFU)	GROWTH	RECOVER Y	COLOUR OF COLONY
	Escherichia coli 25922	50 -100	luxuriant	≥50 %	pink to red with bile precipitate
	Enterobacter aerogenes 13048	50 -100	luxuriant	≥50 %	Pale Pink to Red
	Enterococcus faecalis 29212	50 -100	Fair to good	30 -40%	Pale Pink to Red
	Proteus vulgaris 13315	≥10 <sup>3</sup>	inhibited	≥50 %	Colorless
	Salmonella Paratyphi (A) 9150	50 -100	luxuriant	≥50 %	Colorless
	Shigella flexneri 12022		Fair to good	30 -40%	Colorless
	Salmonella Paratyphi (B) 8759	50 -100	luxuriant	≥50 %	Colorless
	Salmonella Enteritidis 13076	50 -100	luxuriant	≥50 %	Colorless
	Salmonella Typhi 6539	50 -100	luxuriant	≥50 %	Colorless
	Staphylococcus aureus 25923	50 -100	Fair to good	30 -40%	pale pink-red

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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 2-8°C. Use before expiry date on the label.
<b>Packing:</b>	10/20/50 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 BIOMARK LABORATORIES publications.

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