

TECHNICAL SHEET

BB004	Nutrient- MacConkey Agar Plate		
Formula: Nutrient Agar		MacConkey Agar	
Ingredients:	gms/lit	gms/lit	
Peptic digest of animal tissue	5.00	Peptone	1.50
Meat Extract B#	1.50	Tryptone	1.50
Yeast extract	1.50	Gelatin peptone	17.00
Sodium chloride	5.00	Lactose	10.00
Agar	15.00	Bile Salts	1.50
		Sodium chloride	5.00
#- Equivalent to Beef extract		Crystal violet	0.001
		Neutral red	0.03
		Agar	15.00
Final pH (at 25°C): :7.4 ± 0.2		7.1±0.2	
Directions:			
1.Label the ready to use plate (BB004). streak the test inoculum (50-100 CFU) aseptically on the plate.			
2.Refer Technical Data of Nutrient agar (B550) & MacConkey agar w/0.15% Bile Salts, CV and NaCl (B238).			
Principle:			
Biplates has unique combination of two media. Nutrient agar is a basic culture media used for maintaining microorganisms, cultivating fastidious organisms. Peptic digest of animal tissue, beef extract and yeast extract provide the necessary nitrogen compounds, carbon, vitamins and also some trace ingredients necessary for the growth of bacteria. Sodium chloride maintains the osmotic equilibrium of the medium. MacConkey Agar is a differential medium for the selection and recovery of the Enterobacteriaceae and related enteric gram-negative bacilli. This medium is prepared with crystal violet, NaCl and Bile salts. It is very selective and suppresses growth of a number of Gram-positive bacteria including staphylococci. Coliforms and Enterobacter give pink to red colonies on this medium and Escherichia coli gives pink to red colonies with bile precipitate.			
(I) QC Tests			
pH:	Nutrient Agar: 7.4 ± 0.2 MacConkey Agar: 7.1+ 0.2		
Color:	Light amber coloured medium of Nutrient Agar and Red coloured medium with purplish tinge of MacConkey Agar.		
Appearance:	Sterile Nutrient and MacConkey Agar in 85mm disposable Biplates.		
(II) Sterility test			
Passes release criteria			
(III) Q.C. Test Microbiological			
Cultural characteristics observed after incubation at 35-37°C for 18-48 hours.			
MICROORGANISM (ATCC)	GROWTH ON MACCONKEY AGAR	COLOR ON MACCONKEY AGAR	GROWTH ON NUTRIENT AGAR
Escherichia coli 25922	Luxuriant	Pink-red w/ bile precipitate	Good-luxuriant
Staphylococcus aureus 25923	Inhibited	-	Good-luxuriant
S. serotype enteritidis 13076	Luxuriant	Colorless	Good -luxuriant

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Streptococcus pyogenes 19615	-	-	Good - luxuriant
Klebsiella pneumoniae 13883	Luxuriant	Pink-red	-
Proteus vulgaris 13315	Luxuriant	Colorless	Good - luxuriant
S. serotype paratyphi A9150	Luxuriant	Colorless	-
Pseudomonas aeruginosa 27853	-	-	Good - luxuriant
Enterococcus faecalis 29212	None-poor	Colorless-pink	Good - luxuriant
Shigella flexneri 12022	Fair-good	Colorless	-
Enterobacter aerogenes 13048	Luxuriant	Pink-red	Good - luxuriant
S. serotype typhi 6539	Luxuriant	Colorless	Good - luxuriant

Refer disclaimer Overleaf

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:	Combination of Nutrient Agar + MacConkey Agar w/ 0.15% Bile Salts, CV and NaCl recommended for selective isolation and differentiation of coliform and other enteric pathogens.
Storage:	Store between 20-30°C. Use before expiry date on the label.
Packing:	20/50 disposable plates.

Disclaimer:

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