B605	Mac Conkey Agar Base
Formula	
Ingredients :	**gms/lit.**
Peptic digest of animal tissue	17.00
Proteose peptone	3.00
Bile Salts	1.5 0
Sodium chloride	5.00
Crystal violet	0.001
Neutral red	0.03
Agar	13.50
Final pH (at 25°C): 7.1 ± 0.2	
Directions :	
Suspend 40.03 grams in 1000 ml distilled water. Add desired amount of carbohydrate either individually or in combination. Heat to boiling with gentle swirling to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure for 15 minutes. Avoid overheating. Cool to 45-50°C and pour into sterile Petri plates. The surface of the medium should be dry when inoculated.	
Principle: Proteose peptone and Peptic digest of animal tissue are sources of nitrogen and other nutrients. Bile salt is selective agents that inhibit growth of gram –positive organisms. Agar is a solidifying agent.	

QC Tests – (I)Dehydrated Medium			
	Colour :	Light yellow to pink	
	Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/heating) :	7.1 ± 0.2	
	Colour (post autoclaving/heating) :	Red with purplish tinge	
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent	
(III) Q.C. Test Microbiological			
	Cultural characteristics observed with added 1% lactose, after an incubation at 35-37°C for 18-24 hours		
	MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY
	Enterobacter aerogenes (13048)	Luxuriant	Pink-red
	Escherichia coli (25922)	Luxuriant	Pink-red w/bile ppt.
	Salmonella typhi(6539)	Good-luxuriant	Colourless
	Enterococcus faecalis (29212)	Fair to good	pale pink to red
	Proteus vulgaris (13315)	Luxuriant	Colourless
	Salmonella Paratyphi A (9150)	Luxuriant	Colourless
	Shigella dysenteriae (13313)	Fair to good	Colourless
	Salmonella Paratyphi B (8759)	Luxuriant	Colourless
	Salmonella Enteritidis (13076)	Luxuriant	Colourless
	Staphylococcus aureus (29213)	Inhibited	--

Precautions :	1. For Laboratory Use.
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.

Refer disclaimer Overleaf

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Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
	2. Although MacConkey media are selective primarily for gram – negative enteric bacilli, biochemical and, if indicated, serological testing using pure cultures are recommended for complete identification. Consult appropriate references for further information.
	3. Due to the selective properties of MacConkey Agar CV, some strains of gram – negative enteric bacilli may be encountered that fail to grow or grow poorly on this
	4. Incubation of MacConkey Agar plates under increased CO_2 has been reported to reduce the growth and recovery of a number of strains of gram – negative bacilli.
	5. For optimal performance, plates prepared from MacConkey Agar CV should be incubated under aerobic conditions.
Use :	For studying fermentation reactions of coliforms by adding carbohydrates either individually or in combination.
Storage :	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.
Packing :	500 gm. bottle

Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B605	40.03 g/L	12.490L	7.1± 0.2	Desired sugar	121^0C / 15minutes

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