

B243	Mac Conkey Agar, Modified	
Formula		
Ingredients :	gms/lit.	
Peptone	17.00	
Proteose peptone	3.00	
Inositol	10.00	
Bile Salts	1.50	
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 50.03 grams in 1000 ml purified/distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE OR OVERHEAT. Cool to 45-50°C and aseptically add two vials of Klebsiella Selective Supplement. Mix well and pour into sterile Petri plates.		
Principle: Peptones are sources of nitrogen and other nutrients. Inositol is a fermentable carbohydrate; bile salts and crystal violet are selective agents that inhibit growth of gram-positive organisms.		
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) :	Purplish red	
Clarity (post autoclaving/heating) :	Clear to slightly opalescent	
(III) Q.C. Test Microbiological		
Cultural characteristics, after addition of 2 vials of Klebsiella Selective Supplement, observed after an incubation at 35-37°C for 18-24 hours.		
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY
Enterobacter aerogenes (13048)	Inhibited	--
Escherichia coli (25922)	Inhibited	--
Klebsiella pneumoniae (13883)	Luxuriant	Pink
Salmonella typhi (6539)	Inhibited	--
Serratia marcescens (8100)	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 medium. Some strains of gram – positive organisms may be encountered that are not inhibited or only partially inhibited on this medium ; some strains of enterococci may grow on MacConkey Agar CV after prolonged incubation.				
	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:	MacConkey Agar, modified is recommended for isolation of Klebsiella species from water samples.				
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
B243	50.03 g/L	9.994L	7.1± 0.2	Klebsiella selective supplement	121°C /15 min.

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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