

**BIOMARK Laboratories – INDIA**

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**TECHNICAL SHEET**

<b>B779</b>	<b>Mac Conkey Agar w/CV, NaCl &amp; 0.15% Bile Salts</b>	
<b>Formula</b>		
<b>Ingredients :</b>	<b>gms/lit.</b>	
Peptone	20.00	
Lactose	10.00	
Bile Salts	1.50	
Sodium chloride	5.00	
Crystal violet	0.001	
Neutral red	0.05	
Agar	15.00	
Final pH (at 25°C) : 7.2± 0.2		
<b>Directions :</b>		
Suspend 51.55 grams of medium in 1000 ml distilled water. Heat to boiling with gentle swirling to dissolve the agar completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Avoid overheating. Cool to 45 - 50°C. Mix well and pour into sterile Petri plates. The surface of the medium should be dry when inoculated.		
<b>Principle:</b> Peptone serves as a source of carbon, nitrogen, long chain amino acids, vitamins and other essential growth nutrients. Lactose serves as the carbon source by being the fermentable carbohydrate. Bile salts and crystal violet serves to make the medium selective by inhibiting accompanying gram-positive bacteria. Neutral red is the pH indicator dye while sodium chloride maintains the osmotic equilibrium of the medium.		
<b>QC Tests – (I) Dehydrated Medium</b>		
Colour :	Light yellow to pink	
Appearance :	Homogeneous Free Flowing powder	
<b>(II) Rehydrated medium</b>		
pH (post autoclaving/heating) :	7.2 ± 0.2	
Colour (post autoclaving/heating) :	Red with purplish tinge	
Clarity (post autoclaving/heating) :	Clear to slightly opalescent	
<b>(III) Q.C. Test Microbiological</b>		
Cultural characteristics observed after 18 – 72 hours at 30- 35°C.		
MICROORGANISM (ATCC )	GROWTH	COLOUR OF COLONY
Enterobacter aerogenes (13048)	Luxuriant	Pink to red
Escherichia coli (25922)	Luxuriant	Pink to red with bile precipitate
Escherichia coli (NCTC 9002)	Luxuriant	Pink to red with bile precipitate
Salmonella Typhimurium (14028)	Luxuriant	Colourless
Proteus vulgaris (13315)	Luxuriant	Colourless
Salmonella enteritidis (13076)	Luxuriant	Colourless
Salmonella typhi (6539)	Luxuriant	Colourless
Salmonella paratyphi A	Luxuriant	Colourless
Salmonella paratyphi B	Luxuriant	Colourless
Salmonella Abony (NCTC 6017)	Luxuriant	Colourless
Shigella flexneri (12022)	Fair to good	Colourless
Enterococcus faecalis (29212)	None-poor	Colourless to pale pink
Staphylococcus aureus (25923)	Inhibited	--
Staphylococcus aureus (6538)	Inhibited	--
<b>Precautions :</b>	1. For Laboratory Use.	
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.	

Refer disclaimer Overleaf

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<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.				
	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 <sub>2</sub> 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.				
<b>Use :</b>	Recommended to identify Enterobacteriaceae in the presence of coliforms and lactose nonfermenters from water, sewage, food products etc.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.				
<b>Packing :</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
	<b>B779</b>	51.55 g/L	9.699L	7.2± 0.2	NIL

**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. The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.