

BIOMARK Laboratories – INDIA

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TECHNICAL SHEET

B759	Mac Conkey Broth Purple (Double Strength)	
Formula		
Ingredients :	gms/lit.	
Peptic digest of animal tissue	40.00	
Lactose	20.00	
Bile Salts	10.00	
Sodium Chloride	10.00	
Bromo cresol purple	0.02	
Final pH (at 25°C) : 7.4± 0.2		
Directions :		
Suspend 80.00 g of medium in 1000 ml. distilled water. Heat to dissolve the medium completely. Distribute into tubes with inverted Durham tubes and sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool the tubes before inoculation. Incubate the inoculated media aerobically at 35-37°C. After 18-24 hours, examine the broth tubes for growth, acid and gas production.		
Principle: Peptic digest of animal tissue is sources of nitrogen and other nutrients. Lactose is a fermentable carbohydrate. When lactose is fermented, a local pH drop causes a colour change in the pH indicator. Bile Salts is selective agents that inhibit growth of gram –positive organisms.		

QC Tests – (I) Dehydrated Medium					
Colour :	Purplish cream to yellow				
Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium					
pH (post autoclaving/heating) :	7.4 ± 0.2				
Colour (post autoclaving/heating) :	Purple				
Clarity (post autoclaving/heating) :	Clear				
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18 – 24 hours at 35- 37°C.					
MICROORGANISM (ATCC)	GROWTH	ACID	GAS		
Enterobacter aerogenes (13048)	Luxuriant	+	+		
Escherichia coli (25922)	Luxuriant	+	+		
Salmonella cholerasuis (12011)	Fair to good	--	--		
Staphylococcus aureus (25923)	Inhibited	--	--		
Precautions :	1. For Laboratory Use.				
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				

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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.				
Use :	B759: For the presumptive identification of coliforms from large 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
B759	80.00 g/L	6.25L	7.4± 0.2	NIL	121°C /15 min.