

**BIOMARK Laboratories – INDIA**

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**TECHNICAL SHEET**

<b>B763</b>	<b>Mac Conkey Broth (Double Strength)</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Peptic digest of animal tissue		40.00				
Lactose		20.00				
Bile Salts		10.00				
Sodium Chloride		10.00				
Neutral red		0.15				
Final pH (at 25°C): 7.4 ± 0.2						
<b>Directions :</b>						
Suspend 80.15 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Distribute into test tubes with inverted Durham tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool the tubes before inoculation						
<b>Principle:</b> Peptic digest of animal tissue provides necessary nitrogen source. Lactose serves as the fermentable carbohydrate source. Sodium chloride maintains the osmotic balance of the cells. The selective action of these media is attributed to the presence of bile salts, which are inhibitory to most species of gram-positive bacteria. Gram-negative bacteria usually grow well on these media and are differentiated by their ability to ferment lactose. The medium turns pink in case of lactose fermenters and yellow in case of lactose- nonfermenters, due to neutral red.						
<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) :		7.4 ± 0.2				
Colour (post autoclaving/heating) :		Red				
Clarity (post autoclaving/heating) :		Clear				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.						
MICROORGANISM (ATCC )		GROWTH	ACID	GAS		
Enterobacter aerogenes (13048)		Luxuriant	+	+		
Escherichia coli (25922)		Luxuriant	+	+		
Salmonella cholerasuis (12011)		Fair to good	--	--		
Staphylococcus aureus (25923)		Inhibited	--	--		
<b>Precautions :</b>		1. For Laboratory Use.				
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				

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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.				
<b>Use :</b>	For primary isolation and coliforms from large samples such as water or waste water.				
<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>B763</b>	80.15 g/L	6.238L	7.4± 0.2	NIL	121°C /15 min.