

<b>B096</b>	<b>M-MacConkey Broth</b>	
<b>Formula</b>		
<b>Ingredients :</b>	<b>gms/lit.</b>	
Peptic digest of animal tissue	10.00	
Lactose	30.00	
Bile Salts	4.00	
Sodium Chloride	5.00	
Bromo cresol purple	0.12	
Final pH (at 25°C) : 7.4±0.2		
<b>Directions :</b>		
Suspend 49.12 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Distribute into tubes with inverted Durham tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.		
<b>Principle:</b> Peptic digest of animal tissue provides necessary nitrogen source. Lactose serves as fermentable carbohydrate source. Sodium chloride maintains osmotic balance of the cells. The selective action of this medium is attributed to bile salts, which are inhibitory to most species of gram-positive bacteria. Gram-negative bacteria usually grow well on the medium and are differentiated by their ability to ferment lactose. The colour change of the medium shown by lactose fermentors is due to production of acid from lactose and a subsequent colour change of the dye when the pH of medium falls below 6.8. Lactose non-fermenting strains, such as Shigella and Salmonella do not alter the appearance of the medium. Due the presence of bromocresol purple in the medium, Escherichia coli changes the colour of the medium to yellow due to lactose fermentation and colourless to slight pink in case of nonfermenters.		
<b>QC Tests – (I) Dehydrated Medium</b>		
Colour :	Light yellow	
Appearance :	Homogeneous Free Flowing powder	
<b>(II) Rehydrated medium</b>		
pH (post autoclaving/heating) :	7.4 ± 0.2	
Colour (post autoclaving/heating) :	Purple	
Clarity (post autoclaving/heating) :	Clear	
<b>(III) Q.C. Test Microbiological</b>		
Cultural characteristics observed after 18 – 24 hours at 35- 37°C.		
MICROORGANISM (ATCC )	GROWTH	COLOUR OF COLONY ((ON MEMBRANE FILTER)
Enterobacter aerogenes (13048)	Luxuriant	Yellow
Escherichia coli (25922)	Luxuriant	Yellow
Salmonella typhimurium (14028)	Fair to good	Colourless to slightly pink
Staphylococcus aureus (25923)	Inhibited	--
<b>Precautions :</b>	1. For Laboratory Use.	
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.	

Refer disclaimer Overleaf

**BIOMARK Laboratories – INDIA**[www.biomarklabs.com](http://www.biomarklabs.com)**TECHNICAL SHEET**

<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 detection of lactose fermenting and nonfermenting enteric bacteria using membrane filter technique.				
<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>B096</b>	49.12g/L	10.17L	7.4± 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.