

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

BH760	MAC CONKEY BROTH PURPLE				
Formula					
Ingredients :	Gms /lit.				
Pancreatic digest of gelatin	20.00				
Lactose monohydrate	10.00				
Dehydrated Ox Bile	5.00				
Bromo cresol purple	0.01				
Final pH (at 25°C) : 7.3 ± 0.2					
Directions :					
Suspend 35.01 grams in 1000 ml purified/ distilled water. Heat if necessary to dissolve the medium completely. Dispense into test tubes with inverted Durham tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes or as per validated cycle.					
Note: Directions specified are as per the concurrent edition of pharmacopoeia in force. Specified expiry period corresponds to this. User must ensure its compatibility with the latest edition.					
Principle :					
Gelatin peptone provides essential growth nutrients. Lactose is the fermentable carbohydrate. Dehydrated ox-bile inhibits gram-positive organisms. Bromo cresol purple is the pH indicator in the medium. Lactose fermenting organisms gives yellow Colour to the medium due to drop in pH as a result of lactose fermentation. Lactose non- fermenting organisms like Salmonella and Shigella do not alter the appearance of the medium. Gas produced gets entrapped in inverted Durham's tube.					
QC Tests – (I)Dehydrated Medium					
	Colour :	Cream to yellow			
	Appearance :	Homogeneous Free Flowing powder			
(II)Rehydrated medium					
	pH (post autoclaving/heating) :	7.3 ± 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	+	+	
	Escherichia coli ATCC 8739	Luxuriant	+	+	
	Escherichia coli NCTC 9002	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.				
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
Use :	MacConkey Broth purple is used for the selective identification of E. coli from pharmaceutical products in accordance with Indian Pharmacopoeia 2014				
Storage :	Dehydrated medium- below 30 ° C Prepared mediums– Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
BH760	35.01 g/l	14.281 L	7.3±0.2	Nil	121°C/15 min.

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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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