

BIOMARK Laboratories – INDIA

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TECHNICAL SHEET

B1488	MAC CONKEY BROTH PURPLE W/BCP					
Formula						
Ingredients :				gms/lit.		
Peptic digest of animal tissue				20.00		
Lactose				10.00		
Bile salts				5.00		
Sodium chloride				5.00		
Bromocresol purple				0.01		
Final pH (at 25°C) : 7.4± 0.2						
Directions :						
Suspend 40.01 grams in 1000 ml 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. Cool the tubes before inoculation.						
Principle: Peptic digest of animal tissue provides essential growth nutrients. Lactose is the fermentable carbohydrate. Bile salts or sodium taurocholate inhibits gram-positive organisms. Sodium chloride maintains the osmotic balance of the medium. Bromocresol purple is the pH indicator in the medium, which turns yellow under acidic condition. Lactose fermenting organisms turn the medium yellow due to the acidity produced on lactose fermentation.						
QC Tests – (I) Dehydrated Medium						
Colour :				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 to slightly opalescent solution in tubes		
(III) Cultural Response						
Growth Promotion is carried out in accordance with the harmonized method of IP. For organisms not specified in pharmacopoeia, cultural response was observed after an incubation at 30-35°C for 18-48 hours.						
Growth promoting properties						
Clearly visible growth of microorganism comparable to that previously obtained with previously tested and approved lot of medium occurs at the specified temperature for not more than the shortest period of time specified inoculating ≤100 cfu (at 42-44°C for 24 hours).						
Inhibitory properties						
No growth of the test microorganism occurs for the specified temperature for not less than longest period of time specified inoculating ≥100cfu(at 42-44°C for ≥ 48 hours).						
Cultural Response						
Cultural characteristics observed after 18 – 48 hours at 30- 35°C.						
MICROORGANISM (ATCC)	GROWTH	ACID	GAS	INCUBATION TEMPERATURE	INCUBATION PERIOD	
GROWTH PROMOTING						
Escherichia coli (8739)	luxuriant	+	+	42 -44 °C	≤24 hrs	
Inhibitory						
Staphylococcus aureus (6538)	inhibited	--	--	42 -44 °C	≥48 hrs	
Additional Microbiological testing						
Escherichia coli (25922)	Luxuriant	+	+	30 -35 °C	18 -24 hrs	
Escherichia coli (NTCC9002)	Luxuriant	+	+	30 -35 °C	18 -24 hrs	
Enterobacter aerogenes (13048)	Luxuriant	+	+	30 -35 °C	18 -24 hrs	

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	Salmonella cholerasuis (12011)	Fair to good	--	--	30 -35 °C	18 -24 hrs
	Staphylococcus aureus (25923)	Inhibited	--	--	30 -35 °C	>=48 hrs
	Key: Acid-+=yellow colour					
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. 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:	It is recommended by International Organization for Standardization (ISO), 1990, Draft ISO/ DIS 9308-2 for the presumptive identification of coliforms from water.					
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	
B1488	40.01 g/L	12.496 L	7.4± 0.2	NIL	121°C /15 min.	