

TECHNICAL SHEET

BH603		Macconkey agar w/agar 1.35%, CV, NACL& bile salts 0.15%				
Formula						
Ingredients:		gms/lit.				
Pancreatic digest of gelatin		17.00				
Peptones (meat and casein)		3.00				
Lactose monohydrate		10.00				
Sodium chloride		5.00				
Bile salts		1.50				
Neutral red		0.030				
Crystal violet		0.001				
Agar		13.50				
Final pH (at 25°C): 7.1+ 0.2						
Directions:						
Suspend 49.53 grams (the equivalent weight of dehydrated medium per litre) in 1000 ml purified/distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes or as per validated cycle. Cool to 45-50°C. Mix well before pouring into sterile Petri plates. The surface of the medium should be dry when inoculated.						
Principle:						
Pancreatic digest of gelatin and Peptone provides the essential nutrients, vitamins and nitrogenous factors required for growth of microorganisms. Lactose monohydrate is the fermentable source of carbohydrate. The selective action of this medium is attributed to crystal violet and bile salts, which are inhibitory to most species of gram-positive bacteria. Sodium chloride maintains the osmotic balance in the medium.						
QC Tests – (I)Dehydrated Medium						
Colour:		Light yellow to pink				
Appearance:		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.1 ± 0.2				
Colour (post autoclaving/heating):		Red with purplish tinge				
Clarity (post autoclaving/heating):		Clear to slightly opalescent				
Growth Promotion		It is carried out in accordance with the harmonized method of ICH (USP/EP/BP/JP). Cultural response was observed after an incubation at 30-35°C for 18-72 hours. Recovery rate is considered as 100% for bacteria growth on Soybean Casein Digest Agar				
Growth promoting properties		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 30-35°C for <=18 hours).				
Indicative properties		Colonies are comparable in appearance and indication reaction to those previously obtained with previously tested and approved lot of medium occurs for the specified temperature for a period of time within the range specified inoculating <=100 cfu (at 30-35°C for 18-72 hours).				
(III)Cultural Response						
MICROORGA NISM (ATCC)	INOCULUM (CFU)	GROWTH	OBSERVED LOT VALUE (CFU)	RECOVERY	COLOUR OF COLONY	INCUBATION PERIOD
GROWTH PROMOTING + INDICATIVE						
Escherichia coli (8739)	50 -100	Luxuriant	25 -100	>=50 %	Pink to red with bile precipitate	18 -72 Hrs

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ADDITIONAL MICROBIOLOGICAL TESTING							
	Escherichia coli (25922)	50 -100	Luxuriant	25 -100	>=50 %	Pink to red with bile precipitate	18 -24 Hrs
	Escherichia coli (NTCC 9002)	50 -100	Luxuriant	25 -100	>=50 %	Pink to red with bile precipitate	18 -24 Hrs
	Enterobacter aerogenes (13048)	50 -100	Luxuriant	25 -100	>=50 %	pink to red	18 -24 Hrs
	Enterococcus faecalis (29212)	50 -100	None - poor	0 - 10	<=10 %	colourless to pale pink	18 -24 Hrs
	Salmonella Typhimurium (14028)	50 -100	Luxuriant	25 -100	>=50 %	Colourless	18 -24 Hrs
	Staphylococcus aureus (25923)	>=10 ³	Inhibited	0	0%	-	>=24 Hrs
	Staphylococcus aureus (6538)	>=10 ³	Inhibited	0	0%	-	>=24 Hrs
	Salmonella Enteritidis (13076)	50 -100	Luxuriant	25 -100	>=50 %	Colourless	18 -24 Hrs
	Salmonella Paratyphi A (9150)	50 -100	Luxuriant	25 -100	>=50 %	Colourless	18 -24 Hrs
	Salmonella ParatyphiB (8759)	50 -100	Luxuriant	25 -100	>=50 %	Colourless	18 -24 Hrs
	Salmonella Typhi (6539)	50 -100	Luxuriant	25 -100	>=50 %	Colourless	18 -24 Hrs
	Salmonella Abony (6017)	50 -100	Luxuriant	25 -100	>=50 %	Colourless	18 -24 Hrs
	Proteus vulgaris (13315)	50 -100	Luxuriant	25 -100	>=50 %	Colourless	18 -24 Hrs
	Shigella flexneri (12022)	50 -100	Fair to good	15 -40	30 -40 %	Colourless	18 -24 Hrs
	Staphylococcus epidermidis (12228)	>=10 ³	Inhibited	0	0%	-	>=24 Hrs
	Corynebacterium diphtheriae type gravis	>=10 ³	Inhibited	0	0%	-	>=24 Hrs
Precautions :		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.					
Limitations :		1.Though the medium is recommended for selective isolation, further biochemical and serological testing must be carried out for further confirmation. 2.The surface of the medium should be dry when inoculated.					
Use:		For selective isolation and differentiation of E.coli and other enteric bacteria from pharmaceutical products in accordance with the microbial limit testing by harmonized methodology of USP/EP/BP/JP.					
Storage:		Dehydrated medium- Between 10- 30°C Prepared medium– Between 20 to 30°C.					
Packing:		500 gm. bottle					

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Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
BH603	49.53 g/l	10.094 L	7.1+0.2	Nil	121°C/15 min.

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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