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TECHNICAL SHEET

BH603 MAC CONKEY AGAR							
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 Agar	0.001 13.50						
Final pH (at 25°C): 7.1 <u>+</u> 0.2	13.30						
Directions:							
	d water Heat to	dissolve the medium completely. Sterilize by					
		.AVOID OVERHEATING. Cool to 45-50°C. Mix					
		e of the medium should be dry when inoculated.					
Principle:	ates. The surfact	e of the mediam should be dry when mocdiated.					
	no providos amir	no acid and other growth factors. Lactose is a					
	carbon energy source for gram – negative lactose – fermenting bacilli. 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 mai							
QC Tests - (I)Dehydrated Medium	Titaliis the osino	de balance in the mediam.					
Colour :	Purnlish cr	eam to light heige					
Appearance :	Homogene	Purplish cream to light beige Homogeneous Free Flowing powder					
(II)Rehydrated medium	nomogeneous Free Flowing powder						
pH (post autoclaving/heating) :	7.1 ± 0.2						
Colour (post autoclaving/neating) :							
Clarity (post autoclaving/heating):							
(III) Q.C. Test Microbiological	Clear to sir	gritiy opalescent					
Cultural characteristics observed af	tor 18 - 24 hour	rc at 35-370C					
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY					
Enterobacter aerogenes (13048)	Luxuriant pink to red						
Escherichia coli (25922)	Luxuriant						
, ,	Luxuriant	pink to red with bile precipitate					
Escherichia coli (8739)		pink-red with bile precipitate					
Escherichia coli (NTCC 9002)	Luxuriant	pink to red with bile precipitate					
Staphylococcus aureus (25923)	Inhibited	-					
Staphylococcus aureus (6538)	Inhibited	-					
Staphylococcus epidermidis (12228	3) Inhibited	-					
Enterococcus faecalis (29212)	fair-good	colourless to pale pink					
Salmonella Typhimurium (14028)	Luxuriant	colourless					
Salmonella Enteritidis (13076)	Luxuriant	colourless					
Salmonella Paratyphi A (9150)	Luxuriant	colourless					
Salmonella Paratyphi B (8759)	Luxuriant	colourless					
Salmonella Typhi (6539)	Luxuriant	colourless					
Salmonella Abony (6017)	Luxuriant	colourless					
Proteus vulgaris (13315)	Luxuriant	colourless					
Shigella flexneri (12022)	Luxuriant	colourless					
Corynebacterium diphtheriae type	Inhibited	-					
gravis							
Precautions: 1. For Laboratory U	lse.	•					
	2. Follow proper, established laboratory procedures in handling and disposing of						
infectious materials							
		Page 01 of 02					
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Limitations :	Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.						
Use:	For the selective isolation and differentiation of coliforms from pharmaceutical products in accordance to microbial limit testing by harmonized system of (USP/BP/EP/JP). It is also recommended for selective isolation and differentiation of lactose fermenting and lactose non-fermenting enteric bacteria.						
Storage:	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
Packing:	500 gm. bottle						
Product profile:		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.		