## BIOMARK Laboratories – INDIA www.biomarklabs.com TECHNICAL SHEET

B603 MAC CONKEY AGAR W/1.35% AGAR, CV, NACL & 0.15% BILE SALTS						
Formula						
Ingredients :	gms/lit.					
	1.50					
	1.50					
Pancreatic digest of gelatin	17.00					
Lactose	10.00					
Bile Salts	1.50					
Sodium chloride	5.00					
,	0.001					
	0.03					
Agar	13.50					
Final pH (at 25°C) : 7.1 <u>+</u> 0.2						
Directions :						
Avoid overheating. Cool to 45 – 50°C ar should be dry when inoculated.	nd pour into ste	at 15 lbs pressure (121°C) for 15 minutes. rile petri plates. The surface of the medium				
<b>Principle:</b> Peptic digest of animal tissue is sources of nitrogen and other nutrients. Lactose is a fermentable carbohydrate. When lactose is fermented, a local pH drop around the colony causes a colour change in the pH indicator (neutral red) Bile salt is selective agents that inhibit growth of gram –positive organisms. Agar is a solidifying agent.						
QC Tests – (I)Dehydrated Medium						
Colour :	Pinkish beig					
Appearance :	Homogeneo	Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :	$7.1 \pm 0.2$					
Colour (post autoclaving/heating) : Red with purplish tinge						
Clarity (post autoclaving/heating) :	Clear to slig	Clear to slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after	<u>er 18 – 24 hour</u>	s at <u>35- 37°C.</u>				
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY				
Enterobacter aerogenes (13048)	Luxuriant	Pink to red				
Escherichia coli (25922)	Luxuriant	Pink to red with bile precipitate				
Escherichia coli (8739)	Luxuriant	Pink to red with bile precipitate				
Escherichia coli (NCTC9002)	Luxuriant	Pink to red with bile precipitate				
Proteus vulgaris (13315)	Luxuriant	Colourless				
Salmonella enteritidis (13076)	Luxuriant	Colourless				
Salmonella typhi (6539)	Luxuriant	Colourless				
Salmonella paratyphi A	Luxuriant	Colourless				
Salmonella paratyphi B	Luxuriant	Colourless				
Salmonella Abony (NCTC6017)	Luxuriant	Colourless				
Salmonella Typhimurium (14028)	Luxuriant	Colourless				
Shigella flexneri (12022)	Fair to good	Colourless				
Enterococcus faecalis (29212)	None - poor	Colourless to pale pink				
Staphylococcus aureus (25923)	Inhibited					
Staphylococcus epidermidis (12228)	Inhibited					
Staphylococcus aureus (6538)	Inhibited					

## BIOMARK Laboratories – INDIA www.biomarklabs.com TECHNICAL SHEET

Due south and a	1 Faulahaua							
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.							
	3. Due to the selective properties of MacConkey Agar CV, some strains of gram –							
	negative enteric bacilli may be encountered that fail to grow or grow poorly on this							
	medium. Some strains of gram – positive organisms may be encountered that are not							
	inhibited or only partially inhibited on this medium ; some strains of enterococci may							
	grow on MacConkey Agar CV after prolonged incubation.							
	<ul> <li>4. Incubation of MacConkey Agar plates under increased CO<sub>2</sub> has been reported to reduce the growth and recovery of a number of strains of gram – negative bacilli.</li> <li>5. For optimal performance, plates prepared from MacConkey Agar CV should be incubated under aerobic conditions.</li> </ul>							
Use:	For selective isolation and differentiation of lactose fermenting and lactose non fermenting enteric bacteria, as per B.P.							
Storage:	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.							
Packing :	500 gm. bottle							
Product profile:	Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization			
-		Preparation						
		(500g)						
B603	50g/L	10.0L	7.1 <u>+</u> 0.2	NIL	121°C /15 min.			

BIOMARK Laboratories – INDIA www.biomarklabs.com TECHNICAL SHEET