BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B610 MANNITOL MOTILITY TEST MEDIUM							
Formula							
Ingredients:		gn	ıs/lit.				
Peptic digest of animal tissue 20.00							
Mannitol 2.00							
Potassium nitrate	<u> </u>	1.0	00				
Phenol red	red 0.						
Agar 3.00							
Final pH (at 25°C): 7.6 <u>+</u> 0.2							
Directions :							
Suspend 26.04 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely.							
Dispense into test tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool the							
tubed medium in an upright position.							
Principle:							
The highly nutritious peptic digest of animal tissue supports luxuriant growth of fastidious bacteria like							
Staphylococci. Semisolid nature of the medium due to 0.3% agar helps to detect motility. Motile bacteria							
produce diffused growth throughout the medium while non-motile bacteria grow only along the line of							
inoculation. Fermentation of mannitol produces acidity in the medium. Phenol red is the pH indicator,							
which detects acidity by exhibiting a visible colour change from red to yellow.							
QC Tests – (I)Dehydrated Medium							
Colour :			Light yellow to pink				
Appearance :			Homogeneous Free Flowing powder				
(II)Rehydrated medium							
pH (post autoclaving/heating) :			7.6 ± 0.2				
	Colour (post autoclaving/heating) :			Red			
Clarity (post autoclaving/heating):			Clear to slightly opalescent semisolid gel				
(III) Q.C. Test Microbiological							
Cultural characteristics observed after 18-48 hours at 35-37°C.							
				MANNITOL FERMENTATION	MOTILITY		
` '				Positive reaction, yellow colour	+		
` '							
Proteus vulgaris (13315)				Negative reaction, no colour]+		
Drotous mimbilio (25022)				change			
Proteus mirabilis (25933)				Negative reaction, no colour	+		
Colmonalla Tumbi (CE20)				change	1.		
				Positive reaction, yellow colour	+		
J ,				Positive reaction, yellow colour	-		
				Positive reaction, yellow colour	-		
Staphylococcus epidermidis (12228) Lu				Negative reaction, no colour change	-		
Motility=+ Growth away from stabline causing turbidity							
- Growth along the stabline, surrounding medium remains clear							
Precautions:	1. For Laboratory Use.						
Soliton 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: It is a semisolid medium suitable for determining motility and mannitol fermentation.							
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
Packing:							
Product profile:		Quantit	v on	pH (25°C)	Sunnlement	Sterilization	
i roduct profile.			ition (500g		Supplement	Stermzation	
B610	26.04 g/l		9.201 L	7.6 ± 0.2	NIL	121°C / 15	
2310	20.07 g/1	1	J.201 L	7.0 ± 0.2	IAIL	minutes	
	i .				1	minutes	