

TECHNICAL SHEET

B610	MANNITOL MOTILITY TEST MEDIUM					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		20.00				
Mannitol		2.00				
Potassium nitrate		1.00				
Phenol red		0.04				
Agar		3.00				
Final pH (at 25°C) : 7.6 ± 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.						
MICROORGANISM (ATCC)		GROWTH	MANNITOL FERMENTATION	MOTILITY		
Escherichia coli (35218)		Luxuriant	Positive reaction, yellow colour	+		
Proteus vulgaris (13315)		Luxuriant	Negative reaction, no colour change	+		
Proteus mirabilis (25933)		Luxuriant	Negative reaction, no colour change	+		
Salmonella Typhi (6539)		Luxuriant	Positive reaction, yellow colour	+		
Shigella sonnei (25931)		Luxuriant	Positive reaction, yellow colour	-		
Staphylococcus aureus (25923)		Luxuriant	Positive reaction, yellow colour	-		
Staphylococcus epidermidis (12228)		Luxuriant	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. 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.				
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 :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B610		26.04 g/l	19.201 L	7.6 ± 0.2	NIL	121°C / 15 minutes

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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.