

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B262	MOTILITY TEST MEDIUM (EDWARDS AND EWING)				
Formula					
Ingredients : gms/lit.					
Peptic digest of animal tissue 10.00					
Beef extract 3.00					
Sodium chloride 5.00					
Agar 4.00					
Final pH (at 25°C) : 7.4 ± 0.2					
Directions :					
Suspend 22 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense 8 ml amounts in test tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool the tubed medium in an upright position.					
Principle :					
Peptic digest of animal tissue, beef extract serves as sources of essential growth nutrients required for bacterial metabolism. Sodium chloride maintains the osmotic equilibrium of the medium. Small amount of agar helps to create a semisolid medium					
QC Tests – (I) Dehydrated Medium					
Colour :		Cream to yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.4 ± 0.2			
Colour (post autoclaving/heating) :		Light yellow			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18- 48 hours at 35-37°C.					
MICROORGANISM (ATCC)		GROWTH		MOTILITY	
Enterobacter aerogenes (13048)		Luxuriant		Positive, growth away from stabline causing turbidity	
Escherichia coli (25922)		Luxuriant		Positive, growth away from stabline causing turbidity	
Klebsiella pneumoniae (13883)		Luxuriant		Negative, growth along the stabline, surrounding medium remains clear	
Salmonella enteritidis (13076)		Luxuriant		Positive, growth away from stabline causing turbidity	
Staphylococcus aureus (25923)		Luxuriant		Negative, growth along the stabline, surrounding medium remains clear	
Vibrio cholerae (15748)		Luxuriant		Positive, growth away from stabline causing turbidity	
Vibrio parahaemolyticus (17802)		Luxuriant		Positive, growth away from stabline causing turbidity	
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. Many organisms fail to grow deep in semisolid media, inoculating pour plates may be advantageous.			
Use :		It is used for testing motility of enteric bacteria.			
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			
B262	22.0 g/l	22.727L	7.4 ± 0.2	NIL	121°C / 15 minutes