

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B261	MOTILITY SULPHIDE MEDIUM					
Formula						
Ingredients :		gms/lit.				
Proteose peptone		10.00				
Beef extract		3.00				
L-Cystine		0.20				
Ferric ammonium citrate		0.20				
Sodium citrate		2.00				
Sodium chloride		5.00				
Gelatin		80.00				
Agar		4.00				
Final pH (at 25°C) : 7.3 ± 0.2						
Directions :						
Suspend 10.44 grams in 100 ml warm distilled water. Heat to boiling with constant agitation to dissolve the medium completely. Dispense in tubes in 4 ml amounts and sterilize by autoclaving at 115°C(10 lbs pressure) for 15 minutes. Allow the tubed medium to cool in an upright position.						
Principle :						
Proteose peptone, beef extract provides nitrogen compounds, carbon, sulphur and trace elements essential for bacterial growth. L-cystine and ferric ammonium citrate are the H ₂ S indicators. Agar and gelatin preserves an intact stab line.						
QC Tests – (I)Dehydrated Medium						
Colour :		Light yellow				
Appearance :		Homogenous coarse powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.3 ± 0.2				
Colour (post autoclaving/heating) :		Yellow				
Clarity (post autoclaving/heating) :		Slightly opalescent				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 18 –24 hrs.at 35-37°C.						
MICROORGANISM (ATCC)	GROWTH	MOTILITY	H2S	UREASE		
Enterobacter aerogenes (13048)	Luxuriant	+	-	-		
Escherichia coli (8739)	Luxuriant	+	-	-		
Proteus mirabilis (25933)	Luxuriant	±	+	+		
Salmonella typhimurium (14028)	Luxuriant	+	+	-		
Staphylococcus aureus (25923)	Luxuriant	-	-	-		
Shigella sonnei (25931)	Luxuriant	-	-	-		
Key : ± = motility is temperature dependent.It is more pronounced at 20°C and almost absent at 35°C + = positive reaction, motile organism/blackening of medium / reddish purple colouration.						
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 :		For detection of motility and hydrogen sulphide production by pure cultures.				
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
B261		104.4g/l	4.789L	7.3 ± 0.2	NIL	115°C / 15 minutes