

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B309	SIM MEDIUM					
Formula						
Ingredients :		gms/lit.				
Peptone		30.00				
Beef extract		3.00				
Peptonized iron		0.20				
Sodium thiosulphate		0.025				
Agar		3.00				
Final pH (at 25°C) :		7.3 ± 0.2				
Directions :						
Suspend 36.23 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense in tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow the tubes to cool in an upright position.						
Principle :						
Peptone and Beef extract provides nitrogenous and carbonaceous compounds, long chain amino acids, vitamins and other essential nutrients. Tryptophan from peptone, is degraded by specific bacteria to produce indole. The indole is detected by the addition of chemical reagents following the incubation period. Peptonized Iron and Sodium Thiosulfate are indicators of hydrogen sulfide production. Agar is a solidifying agent.						
QC Tests – (I) Dehydrated Medium						
Colour :	Cream to beige					
Appearance :	Homogeneous Free Flowing powder					
(II) Rehydrated medium						
pH (post autoclaving/heating) :	7.3 ± 0.2					
Colour (post autoclaving/heating) :	Medium amber					
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	H ₂ S	MOTILITY	INDOL(ON ADDITION OF KOVAC'S)		
Escherichia coli (25922)	Luxuriant	-	+	+		
Salmonella typhimurium (14028)	Luxuriant	+	+	-		
Shigella flexneri (12022)	Luxuriant	-	-	-		
Salmonella Paratyphi A (9150)	Luxuriant	-	+	-		
Salmonella Paratyphi B (8739)	Luxuriant	+	+	-		
Klebsiella pneumoniae (13383)	Luxuriant	-	-	-		
Key : + = positive reaction, H ₂ S + = blacking of the medium						
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 determination of hydrogen sulphide production, indole formation and motility of enteric bacilli.				
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
B309	36.23g/l	13.800L	7.3 ± 0.2	NIL	121°C / 15 minutes	