

TECHNICAL SHEET

B309	SIM MEDIUM				
Formula					
Ingredients :		gms/lit.			
Peptone		30.00			
Meat Extract B#		3.00			
Peptonized iron		0.20			
Sodium thiosulphate		0.025			
Agar		3.00			
#- Equivalent to Beef extract					
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 Meat Extract B 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 REAGENT
	Escherichia coli (25922)	Luxuriant	-	+	+
	Salmonella typhimurium (14028)	Luxuriant	+	+	-
	Shigella flexneri (12022)	Luxuriant	-	-	-
	Salmonella Paratyphi A (9150)	Luxuriant	-	+	-
	Salmonella Paratyphi B (8739)	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 from clinical and non-clinical samples.			
Storage :		Dehydrated medium- below 30 ° C Prepared mediums– Between 2 to 8°C.			
Packing :		500 gm. bottle			

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Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B309	36.23g/l	13.800L	7.3 ± 0.2	NIL	121 ⁰ 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.

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