## **BIOMARK Laboratories-INDIA**

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## **TECHNICAL SHEET**

B271 SCHAEDLER BROTH	
Formula	
Ingredients:	gms/lit.
Casein enzymic hydrolysate	5.67
Proteose peptone	5.00
Soya peptone	1.00
Yeast Extract	5.00
Dextrose	5.83
Sodium chloride	1.67
Dipotassium hydrogen phosphate	0.83
Tris hydroxymethyl aminomethane	3.00
L-Cystine	0.40
Hemin	0.01
Final pH (at 25°C): 7.6 ± 0.2	
Discostiana .	

#### **Directions:**

Suspend 28.41 grams in 1000 ml distilled water. If desired 0.02-0.2% Agar can be added.Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add 5% sterile defibrinated blood if desired. Mix well and dispense into tubes or flasks as desired. Avoid overheating and photooxidation of the medium as it will retard the growth of bacteria.

## Principle:

Schaedler broth is highly nutritious medium due to casein enzymic hydrolysate, proteose peptone, soya peptone and yeast extract. Dextrose is a carbon source, and Tris (Hydroxymethyl) amino methane is used to buffer the medium.

QC	Tests - (I)Dehydrated Medium					
	Colour:	Cream to yellow				
	Appearance :	Homogeneous Free Flowing powder				
(II	)Rehydrated medium					
	pH (post autoclaving/heating):	7.6 ± 0.2				
	Colour (post autoclaving/heating):	Light amber				
	Clarity (post autoclaving/heating):	Clear to slightly opalescent				
(II	I)Q.C. Test Microbiological					
	Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours under					
	anaerobic condition.					
	MICROORGANISM (ATCC )	GROWTH				
	Bacteroides fragilis (25285)	Luxuriant				
	Clostridium butyricum (9690 )	Luxuriant				
	Clostridium perfringens (12924)	Luxuriant				
	Clostridium sporogenes (11437)	Luxuriant				
	Streptococcus pyogenes (19615)	Luxuriant				
	Escherichia coli (25922)	Inhibited				

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Precautions: 1. For Laboratory Use.						
2. Follow proper, established laboratory procedures in handling and disposing of						
infectious materials.						
1. Since the nutritional requirements of organisms vary, some strains may be						
2. Clinical specimens must be obtained properly and transported to the laboratory in a						
3. The microbiologist must be able to verify quality control of the medium and determine						
whether the environment is anaerobic.						
4. The microbiolgist must perform aerotolerance testing on each isolate recovered to						
ensure that the organism is an anaerobe.						
For cultivation of wide variety of microorganisms particularly from anaerobic blood						
cultures.						
Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
500 gm. bottle						
Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization		
	Preparation (500g)					
28.41g/l	17.599L	$7.6 \pm 0.2$	5% sterile	121°C / 15 minutes		
_			defibrinated			
			blood if desired			
	2. Follow proper infectious mater 1. Since the nutrencountered that 2. Clinical specir suitable anaerob 3. The microbiol whether the env 4. The microbiol ensure that the For cultivation cultures.  Dehydrated med 500 gm. bottle Reconstitution	infectious materials.  1. Since the nutritional requirements encountered that fail to grow or grow 2. Clinical specimens must be obtaine suitable anaerobic transport containe 3. The microbiologist must be able to whether the environment is anaerobic 4. The microbiologist must perform ae ensure that the organism is an anaerobic transport containe 3. The microbiologist must be able to whether the environment is anaerobic 4. The microbiologist must perform ae ensure that the organism is an anaerobic cultivation of wide variety of microbiologist must perform ae ensure that the organism is an anaerobic cultivation of wide variety of microbiologist must perform ae ensure that the organism is an anaerobic cultivation of wide variety of microbiologist must perform ae ensure that the organism is an anaerobic cultivation of wide variety of microbiologist must be able to whether the environment is anaerobic 4. The microbiologist must perform ae ensure that the organism is an anaerobic cultivation of wide variety of microbiologist must perform ae ensure that the organism is an anaerobic cultivation of wide variety of microbiologist must perform ae ensure that the organism is an anaerobic cultivation of wide variety of microbiologist must perform ae ensure that the organism is an anaerobic cultivation of wide variety of microbiologist must perform ae ensure that the organism is an anaerobic cultivation of wide variety of microbiologist must perform an anaerobic cultivation of wide variety of microbiologist must perform an anaerobic cultivation of wide variety of microbiologist must perform an anaerobic cultivation of wide variety of microbiologist must perform an anaerobic cultivation of wide variety of microbiologist must perform an anaerobic cultivation of wide variety of microbiologist must perform an anaerobic cultivation of wide variety of microbiologist must perform an anaerobic cultivation of wide variety of microbiologist must perform an anaerobic cultivation of wide variety of microbiologist must perform an anaerob	Follow proper, established laboratory procedures infectious materials.     Since the nutritional requirements of organisms encountered that fail to grow or grow poorly on this 2. Clinical specimens must be obtained properly an suitable anaerobic transport container.     The microbiologist must be able to verify quality whether the environment is anaerobic.     The microbiologist must perform aerotolerance te ensure that the organism is an anaerobe.  For cultivation of wide variety of microorganisms procultures.  Dehydrated medium- below 30°C Prepared medium 500 gm. bottle  Reconstitution Quantity on ph (25°C) Preparation (500g)	<ol> <li>Follow proper, established laboratory procedures in handling and dinfectious materials.</li> <li>Since the nutritional requirements of organisms vary, some strain encountered that fail to grow or grow poorly on this medium.</li> <li>Clinical specimens must be obtained properly and transported to tsuitable anaerobic transport container.</li> <li>The microbiologist must be able to verify quality control of the mewhether the environment is anaerobic.</li> <li>The microbiologist must perform aerotolerance testing on each isolensure that the organism is an anaerobe.</li> <li>For cultivation of wide variety of microorganisms particularly from a cultures.</li> <li>Dehydrated medium- below 30°C Prepared medium- Between 2 to 8 500 gm. bottle</li> <li>Reconstitution Quantity on pH (25°C) Supplement Preparation (500g)</li> <li>28.41g/l</li> <li>7.6 ± 0.2 5% sterile</li> </ol>		

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