BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B184	SPS AGAR									
Formula										
Ingredients: gms/lit.										
Casein enzymic hydrolysate 15.00										
Yeast extract	10.00 9 0.50									
Sodium sulphite										
Polymixin B sulph										
Sulphadiazine										
Ferric citrate		0.50								
Agar	13.90									
Final pH (at 25°C) : 7.0 <u>+</u> 0.2										
Directions:										
Suspend 40.03 grams in 1000 ml distilled water. Heat, to boiling to dissolve the medium completely.										
Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri										
plates.										
Principle:										
SPS Agar contains Casein enzymic hydrolysate as a source of carbon, nitrogen, vitamins and minerals.										
Yeast Extract supplies B-complex vitamins which stimulate bacterial growth. Ferric Citrate and Sodium										
Sulfite are H_2S indicators. Clostridia reduce the sulfite to sulfide which reacts with the iron from ferric										
citrate to form a black iron sulfide precipitate. Polymyxin B Sulfate and Sulfadiazine are inhibitors to										
organisms other than Clostridium spp. Agar is solidifying agent.										
QC Tests - (I)Deh	Madical and be a like and be a self-and									
Colour :			Medium amber to yellow							
Appearance :			Homogeneous Free Flowing powder							
(II)Rehydrated medium										
pH (post autoclaving/heating):			7.0 ± 0.2							
Colour (post autoclaving/heating):			Medium amber							
Clarity (post autoclaving/heating):			Slightly opalescent							
(III)Q.C. Test Microbiological										
			48 hrs.at 35-37°C incubated anaerobically.							
MICROORGANISM (ATCC)			ROWTH		COLOUR OF COLONY					
Clostridium perfringens (12924)			Good –Luxuriant		Black					
Clostridium sporogenes (11437)			Poor to good		Black					
			ne to poor		White					
Escherichia coli (25922) Inhibited -										
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									
	encountered that fail to grow or grow poorly on this medium.									
	2. The high degree of selectivity of SPS Agar may inhibit some strains of C. perfringens									
	while other strains that grow may fail to produce distinguishing black colonies.									
Use :	For detection of Clostridium perfringens in foods.									
Storage :	Dehydrated medium and prepared medium – Between 2 to 8°C.									
Packing :	500 gm. bottle				L (2522)			C		
Product profile:		Quantity or Preparation	(500g)		l (25°C)	Suppleme	nt	Sterilization		
B184	40.03g/l	12.4	9 L	7.	0 ± 0.2	NIL		121°C / 15 minutes		