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TECHNICAL SHEET

B1193	LACTOBACILLUS STREPTOCOCCUS DIFFERENTIAL MEDIUM BASE				
Formula					
Ingredients :		gms/lit.			
Casein enzymic hydrolysate		10.00			
Papaic digest of soyabean meal		5.00			
Meat extract B#		5.00			
Yeast extract		5.00			
Dextrose		20.00			
Sodium chloride		5.00			
L-Cysteine hydrochloride		0.30			
Agar		15.00			
#- Equivalent to Beef extract					
Final pH (at 25°C) : 6.1± 0.2					
Directions :					
Suspend 65.3 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. Cool to 50°C and aseptically add the following sterile solutions previously kept warm at 50°C just prior to use; (1) 100 ml of 10% w/v aqueous solution of antibiotic-free skim milk powder sterilized at 15 lbs pressure (121°C) for 5 minutes. (2) 10 ml of 2, 3, 5-Triphenyl-Tetrazolium Chloride (T.T.C.) (BF044) Solution. Mix well and pour into sterile Petri plates.					
Principle :					
Casein enzymic hydrolysate, L-cysteine hydrochloride, papaic digest of soyabean meal, Meat extract B and yeast extract as sources of carbon, nitrogen, vitamins and minerals. Sodium chloride helps in maintaining osmotic balance.					
QC Tests – (I) Dehydrated Medium					
	Colour :	Cream to yellow			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	6.1 ± 0.2			
	Colour (post autoclaving/heating) :	Light yellow			
	Clarity (post autoclaving/heating) :	Opalescent gel			
(III) Q.C. Test Microbiological					
	Cultural characteristics observed with added antibiotic free skim milk powder and 1% T.T.C.(BF044), after an incubation at 43-45°C for 48 hours.				
	MICROORGANISM (ATCC)	COLONY CHARACTERISTICS			
	Lactobacillus bulgaricus(11842)	red, rhizoidal, surrounded by opaque zone			
	Streptococcus thermophilus(14485)	red, smooth, surrounded by clear zone			
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 :	It is used for the differentiation of Streptococci and Lactobacilli on the basis of colonial morphology, T.T.C. reduction and casein reaction.				
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
B1193	65.3 g/l	7.65lit	6.1 ± 0.2	T.T.C.Solution(BF044) &10% solution of skim milk powder	121 ⁰ C/15 min

Refer disclaimer overleaf

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