

TECHNICAL SHEET

B216	L.S. 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 gms.in 1000ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and add the following sterile solutions previously kept warm at 50°C just prior to use ;					
(1) 100ml of 10% w/v aqueous solution of antibiotic free skim milk powder sterilized at 15 lbs pressure (121°C) for 5 minutes.					
(2) 10ml of Triphenyl-Tetrazolium Chloride (T.T.C.) Solution. Mix well and pour into sterile petri plates.					
Principle :					
Casein enzymic hydrlolysate, Pepaic digest of soyabean meal and meat extract B and yeast extract provide essential nutrients. Dextrose is the fermentable carbohydrate. Sodium chloride maintains osmotic equilibrium L-cysteine hydrochloride is the reducing. Agent agar is the solidifying agent.					
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			
(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 CHARACTERS			
	Lactobacillus bulgaricus (41842)	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 :	For the maximum growth and differntiation of Lactobacilli and Streptococci 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
B216	65.3 g/l	7.65lit	6.1 ± 0.2	(T.T.C.)	121°C/15 min

Refer disclaimer Overleaf

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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