

TECHNICAL SHEET

B792	LACTIC STREAK AGAR					
Formula						
Ingredients :		gms/lit.				
Part A :						
Sodium carboxymethyl cellulose		10.00				
Calcium citrate		10.00				
Part B :						
Peptic digest of animal tissue		5.00				
Papaic digest of soyabean meal		5.00				
Yeast extract		5.00				
Meat extract B#		5.00				
Lactose		1.50				
L-Arginine hydrochloride		1.50				
Bromo cresol purple		0.002				
Agar		15.00				
# - Equivalent to Beef extract						
Final pH (at 25°C) : 6.0 ± 0.2						
Directions :						
Suspend 38.00 gms. of Part B in 800ml. distilled water. Heat to boiling to dissolve the medium completely. Suspend 20 gms. of Part A in 200ml distilled water. Mix Part A and Part B. Sterilize by autoclaving at 10 lbspressure (115°C) for 10 minutes.						
Principle :						
<p><i>Lactobacillus lactis</i> and its subspecies <i>cremoris</i> and <i>diacetylactis</i> are used as starter cultures in dairy products. They are differentiable on basis of arginine hydrolysis and citrate utilization. Lactose fermentors are yellow colonies due to acid production. <i>Lactococcuslactisinitially</i> produces acid but later on turns to violet-purple color due to ammonia liberated from arginine. <i>L.diacetylactis</i> produces more intense purple color than <i>L.lactis</i>. Citrate utilization is seen by clear zone around colony. For quantitative determination decimal dilutions of cultures are prepared and spread on agar plates. After incubation at 36-40 hrs.at 32 c.yellow colonies of subspecies <i>cremoris</i> are counted. Plates are further incubated for 4 days and total count is taken as well as colonies with clearing zones of subspecies <i>diacetylactis</i> are counted and subtracted from total count to get <i>L. lactis</i> population in the mixture.</p>						
QC Tests – (I)Dehydrated Medium						
Colour :		Yellow				
Appearance :		Part A and B: Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		6.0 ± 0.2				
Colour (post autoclaving/heating) :		Light Yellow				
Clarity (post autoclaving/heating) :		Opalescent gel having greenish tinge forms in petri plates				
(III)Q.C. Test Microbiological						
Cultural characteristics observed up to 4 days at 32°C.						
MICROORGANISM (ATCC)		GROWTH	COLOR OF COLONY	CITRATE UTILIZATION		
Lactobacillus lactis (8000)		Good-Luxuriant	Yellow	-ve		
Lactobacillus lactissubsp.cremoris(19257)		Good-Luxuriant	yellow	-ve		
Lactobacillus lactissubsp. diactylactis		Good-Luxuriant	purple	+ve		
Key: +ve = positive,clearing zone around colony -ve = negative						
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 qualitative and quantitative differentiation of lactic <i>Streptococci</i> .				
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
B792	38g/l	13.15 lit	6.0 ± 0.2	Nil	115°C/10 min	

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