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B1443	MODIFIED TERGITOL-7 AGAR BASE (TERGITOL-7 AGAR BASE, MODIFIED)								
Formula									
Ingredients:			gms/lit.						
Peptic digest of a	animal tissue		10.00						
Yeast extract		6.00							
Meat Extract	5.00								
Lactose		20.00							
Sodium heptadecyl sulphate(Tergitol 7)0.10									
Bromo thymol blue 0.05									
Agar		16.00							
Final pH (at 25°C	C): 7.2+ 0.2								
Directions:	<u></u>								
	rams in 1000 ml dist	illed wat	ter. Heat to boilin	na to diss	olve the medium				
completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Add 2.5 ml of 1% Triphenyl Tetrazolium Chloride (TTC) (BF044). Mix well and pour into sterile									
Petri plates.									
Principle:									
	m hentadecyl sulfate`) inhibits	s arowth of aram	– positiv	e microorganisms and				
spore – forming gram – negative microorganisms, as well as the swarming of proteus, while allowing for superior recovery of coliforms. Lactose fermentation is indicated by a colour change									
	of the pH indicator, bromo thymol blue. Lactose – fermenting microorganisms produce yellow colonies. E. coli produces yellow colonies with yellow zones, while Enterobacter and Klebsiella								
colonies are greenish – yellow. Nonfermenting organisms, such as Salmonella and Shigella,									
produce colonies surrounded by blue zones.									
			as an indicator of	bacteria	l growth. TTC is rapidly				
	When TTC is added to the medium, it serves as an indicator of bacterial growth. TTC is rapidly reduced to insoluble red formazan by most growth. TTC is rapidly reduced in bacterial cell to								
	insoluble red formazan by most lactose – fermenting organisms except E. Coli. Enterobacter and								
	s. In the presence of								
					nfermenters produce red				
					trogen sources required for				
					quired for growth, as well				
	rces of nitrogen and								
	hydrated Medium		· · · · · ·	,					
Colour :	-		Cream to light green						
Appearance:				Homogeneous Free Flowing powder					
(II)Rehydrated n	nedium								
	aving/heating):		7.2 ± 0.2						
	autoclaving/heating):		Green						
	autoclaving/heating):		Clear to slightly opalescent						
(III)Q.C. Test N									
		ftor an i	ncubation at 25	270C for	18 - 48 hours with added				
			neubation at 55						
TTC Solution		CDOW	TH COLOUR OF						
MICROORGANI	SIM (ATCC)	GROW			COLOUR OF COLONY				
			COLONY(ON P		(WITH ADDITION OF				
Entry 1	(100.10)		MEDIUM)		BF044)				
	aerogenes (13048)	Luxuria			reddish brown				
Escherichia co		Luxuria			yellow with red centre				
Klebsiella pne	umoniae (13883)	Luxuria	nt Yellow		yellow with red centre				

Refer disclaimer Overleaf

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	Proteus vulgaris (13315)		Good	colourless with	red with b	luish zone			
	<u> </u>			bluish zone					
	Salmonella typhimurium (14028)		5) Luxuriant	colourless with b	lue red with b	luish zone			
				zone	Page 01 o	f 01.			
	Pseudomonas aeruginosa (27853)		3) Good	colourless with bluish zone	red with b	luish zone			
	Staphylococcus aureus (25923)		Inhibited						
Precautions :		1. For Laboratory Use.							
				tablished laboratory procedures in handling and disposing of					
		infectious materials.							
Lir	nitations :		ce the nutritional requirements of organisms vary, some strains may be						
		encountered that fail to grow or grow poorly on this medium.							
		2. Since the medium with TTC permits growth of coliform organisms, this fact							
		must be taken into consideration in the isolation of Candida from specimens.							
Pour plates do not give satisfactory results.									
4. Allow plates to dry with lids slightly ajar for 1-2 hours after dispensing						lispensing.			
5. Reduction of TTC is an irreversible reaction that produces an i						ices an insoluble			
		formazan compound.							
Use: For selective isolation and enumeration of coliform organisms in									
		membrane filtermethod. The composition and performance criteria of this medium are as per the specifications laid down in ISO 9308-1:1990.							
Sta	orage:	Dehydrated medium- below 30 ° C Prepared mediums- Between 2 to 8°C.							
	cking:	500 gm. bottle							
		Reconstitution Q	iantity on	pH (25°C)	Supplement	Sterilization			
FI	buuct prome.	-	eparation	pri (25 C)	Supplement	Stermzation			
			00g)						
B 1	443	57.15 g/l	8.748 L	7.2 ± 0.2	TTC solution	121ºC /15 min.			
		57110 g/l	017 10 E		1% (BF044).	0,10			

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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