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D162							
B163 Formula	DEOXICHULA	TE CITRATE AGAR					
Ingredients :		gms/lit.					
Heart infusion	solida	10.00					
Proteose pepto		10.00					
Lactose	10.00						
Sodium citrate							
Ferric ammonium citrate 2.00							
Sodium deoxycholate5.00Neutral red0.02							
Agar		13.50					
Final pH (at 25°C) : 7.5 \pm 0.2							
Directions :	- C) . 7.3 <u>+</u> 0.2						
Suspend 70.52 grams in 1000 ml of distilled water. Heat to boiling to dissolve the medium completely. DO							
NOT AUTOCLAVE. Avoid excessive heating as it is detrimental to the medium. Cool to 45-50°C. Mix well and							
pour into steril		eating as it is detrini		ieulum. C	001 10 4	5-50°C. Mix well and	
Principle :	e petit plates.						
	colida is a course	of corbon and nitro		alata Citr	ato Ag	ar containe Drotooco	
Heart infusion solids is a source of carbon and nitrogen. Deoxycholate Citrate Agar contains Proteose							
Peptone as a source of carbon, nitrogen, vitamins and minerals. Lactose is a carbohydrate. Sodium citrate							
and Sodium deoxycholate inhibit gram positive bacteria, coliforms and Proteus species. Ferric Ammonium							
Citrate aids in the detection of H_2S producing bacteria. Neutral Red is a pH indicator. Agar is a solidifying agent. In the presence of neutral red, bacteria that ferment lactose produce acid and form red colonies.							
Bacteria that do not ferment lactose form colorless colonies. If the bacteria produce H_2S , the colonies will							
have black centers. The majority of normal intestinal bacteria ferment lactose and do not produce H_2S							
(pink-red colonies without black centers). Salmonella and Shigella sp. Do not ferment lactose but							
Salmonella may produce H_2S (colourless colonies with or without black centers). Lactose – fermenting							
colonies may have a zone of precipitation around them caused by the precipitation of deoxycholate in the							
presence of ac			caused by th	e precipit		deoxycholate in the	
	Dehydrated Medium						
Colour :	Venyulateu Meuluin	Light vollow to r	Light vollow to pipkich beigg				
			Light yellow to pinkish beige				
Appearan		nomogeneous r	Homogeneous Free Flowing powder				
(II)Rehydrated medium							
	pH (post autoclaving/heating) : 7.5 ± 0.2						
	rr (post autoclaving/heating): Reddish orange						
Clarity (post autoclaving/heating) : Clear to very slightly opalescent							
	Microbiological		25.2700				
	haracteristics observe				1		
	SANISM (ATCC)	GROWTH	COLOUR OF (COLONY		H ₂ S	
Salmonell	a enteritidis (13076)) Good-luxuriant	Colourless			e reaction,black	
						ed colonies	
Salmonell	a typhimurium (1402	8) Good-luxuriant	Colourless			e reaction,black	
					centered colonies		
Salmonella Abony (NCTC6017)		Good-luxuriant	Colourless		positive reaction, black		
						ed colonies	
Shigella flexneri (12022)		Good	Colourless		negative reaction		
Escherichia coli (25922)		Poor	Pink w/bile p		negative reaction		
Escherichia coli (8739)		Poor	Pink w/bile p		negative reaction		
Escherichia coli (NCTC9002)		Poor	Pink w/bile p	pt.	negative reaction		
Streptococcus faecalis (29212)		Inhibited	-		negative reaction		
Staphyloc	occus aureus (25923)	Inhibited	-		negativ	e reaction	
Precautions :					-		
		tablished laboratory	procedures in	handling a	and dist	osing of infectious	
materials.							
Limitations :							
	that fail to grow or grow poorly on this medium.						
	2. Coliform starains may be encountered that will grow on this medium, making it difficult to						
	detect pathogens.						
	3. Heavy inoula should be distributed over the entire surface of the medium prevent						
	complete masking of pathogens by coliform organisms.						
	Use : For selective isolation of enteric pathogens especially Salmonella and Shigella spp.						
Storage : Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.							
Packing :			Cupala	mont	Ctorilization		
Product			pH (25°C)	Supple	ment	Sterilization	
profile:		Preparation (500g)	7 5 1 0 2	NITI			
B163	70.52 g/l	7.09L	7.5 ± 0.2	NIL		DO NOT AUTOCLAVE	

Refer disclaimer Overleaf

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