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B163 DEOXYCHOLATE CITRATE AGAR							
Formula							
Ingredients : qms/lit.							
Hear	rt infusion so	olids	10.00				
Prot	eose pepton	е	10.00				
Lact	ose		10.00				
Sodi	um citrate		20.00				
Ferr	ic ammoniur	m citrate	2.00				
Sodi	um deoxych	olate	5.00				
Neutral red			0.02				
Agai	• • • • • • • • • • • • •		13.50				
Fina	Final pH (at 25°C) : 7.5 <u>+</u> 0.2						
Directions :							
NOT AUTOCLAVE. Avoid excessive heating as it is detrimental to the medium. Cool to 45-50°C. Mix well and							
Principle :							
Principle :							
Dont	Heart infusion solids is a source of carbon and nitrogen. Deoxycholate Citrate Agar contains Proteose						
and	and Sodium dooxycholate inhibit gram positive bacteria, coliforms and Protous species. Forris Ammonium						
Citra	Citrate aids in the detection of H_2S producing bacteria. Neutral Red is a pH indicator. Agar is a solidifying						
ager	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							
pres	ence of acid			-		-	
QC T	ests – (I)De	hydrated Medium					
Colour :			Light yellow to	Light yellow to pinkish beige			
	Appearance	2:	Homogeneous F	Homogeneous Free Flowing powder			
(II)F	Rehydrated i	medium					
pH (post autoclaving/heating) :			7.5 ± 0.2	7.5 ± 0.2			
Colour (post autoclaving/heating) : F			ng) : Reddish orange	Reddish orange			
Clarity (post autoclaving/heating) : Clear to very slightly opalescent							
(III)Q.C. Test Microbiological							
	Cultural cha	aracteristics observe	d after 18-24 hrs.at	<u>35-37°C.</u>			
	MICROORGA	NISM (ATCC)	GROWTH	COLOUR OF	COLONY	H ₂ S	
	Salmonella	enteritidis (13076) Good-luxuriant	Colourless	positiv	e reaction,black	
	Salmonolla	typhimurium (140	28) Cood-luxuriant	Colourloss	positiv	o reaction black	
	Saimonella			Colouriess	center	e reaction, black	
Salmonella Abony (N		Abony (NCTC6017)	Good-luxuriant	Colourless	nositiv	e reaction black	
				colouriess	center	ed colonies	
	Shigella fle	xneri (12022)	Good	Colourless	negativ	e reaction	
Escherichia d		coli (25922)	Poor	Pink w/hile n	nt. negativ	/e reaction	
Escherichia c		coli (8739)	Poor	Pink w/bile p	pt. negativ	e reaction	
Escherichia col		coli (NCTC9002)	Poor	Pink w/bile p	pt. negativ	e reaction	
	Streptococo	cus faecalis (29212) Inhibited	-	negativ	e reaction	
	Staphyloco	ccus aureus (25923)) Inhibited	_	negativ	e reaction	
Prec	autions :	1. For Laboratory l	Jse.		negaa		
		2. Follow proper, es	stablished laboratory	procedures in	handling and dis	posing of infectious	
		materials.					
Limi	tations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered					
		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	<u> </u>	For selective isolation of enteric pathogens especially Salmonella and Shigella spp.					
Stor	age :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.					
Packing : 500 gm bottle							
Product		Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization	
profile:			Preparation (500g)				
B163		70.52 g/l	7.09L	7.5 ± 0.2	NIL	DO NOT AUTOCLAVE	

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