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TECHNICAL SHEET

B987 C	HRISTENSEN CITRATE SULPHITE AGAR			
Formula				
Ingredients:	gms/lit.			
Sodium citrate	3.00			
Dextrose	0.20			
Yeast extract	0.50			
L-Cysteine hydroc	chloride 0.10			
Ferric ammonium	citrate 0.40			
Potassium phosph	nate 1.00			
Sodium chloride	5.00			
Sodium thiosulpha	ate 0.08			
Phenol red	0.012			
Agar	14.00			
Final pH (at 25°C)): 6.7 <u>+</u> 0.2			
Directions:				

Suspend 24.29 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense into test tubes. Sterilize by autoclaving at 12 to15 lbs pressure (118 to 121°C) for 15 minutes. Cool the tubes in slanted position to give slants with generous butts.

Principle:

Medium constituent yeast extract provide the necessary nutrients mainly nitrogenous and vitamins for the growth of the organisms. L-cysteine hydrochloride is a reducing agent. Dextrose is the fermentable carbohydrate. Sodium citrate is the energy source for citrate utilizing organisms. The reduction of ferric ammonium citrate to iron sulphide by H2S producing organisms is indicated by blackening of the medium. Sodium thiosulphate enhances H2S production.

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QC	Tests - (I)Dehydrated Medium					
	Colour:	Light yellow to light pink				
	Appearance:	Homogeneous Free Flowing powder				
(II)Rehydrated medium						
	pH (post autoclaving/heating):	6.7 ± 0.2				
	Colour (post	Orange red				
	autoclaving/heating):					
	Clarity (post	Very slightl	ery slightly opalescent gel			
	autoclaving/heating):					
(II	I)Q.C. Test Microbiological					
	Cultural characteristics observed a	after 18- 24	hrs. at 35-37°C.			
	MICROORGANISM (ATCC)	GROWTH	CITRATE	H2S		
			UTILISATION			
	Escherichia coli (25922)	Luxuriant	negative reaction,	negative reaction, no		
			no colour change	colour change		
	Enterobacter aerogenes (13048)	Luxuriant	positive reaction,	negative reaction,no		
			cerise colour	colour change		
	Salmonella typhimurium (14028)	Luxuriant	positive reaction,	positive reaction,		
			cerise colour	blackening of		
				medium		
	Salmonella enteritidis(13076)	Luxuriant	positive reaction,	positive reaction,		
			cerise colour	blackening of		
				medium		
	Klebsiella pneumoniae (13883)	Luxuriant	weakly positive,	negative reaction,no		
			orange-pink colour	colour change		
	Shigella flexneri (12022)	Luxuriant	negative reaction,	negative reaction,no		
			no colour change	change		

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	Chicalla connoi (2E021)		I		:	alian na			
	Shigella sonnei (25931)		Luxuriant	negative react		action,no			
				no colour chan	ige change				
Pre	ecautions :	1. For Laborato	ry Use.						
		2. Follow proper, established laboratory procedures in handling and disposing of							
		infectious materials.							
Lin	Limitations: 1. Since the nutritional requirements of organisms vary, some strains may be								
		encountered that fail to grow or grow poorly on this medium.							
Us	e :	It is used for the differentiation of enteric bacilli on the basis of citrate utilization and							
		hydrogen sulphide production.							
Sto	rage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.							
Pa	cking :	500 gm. Bottle							
Pro	duct	Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization			
pro	ofile:		Preparation						
-			(500g)						
B9	87	24.29 g/l	20.58 L	6.7 ± 0.2	Nil	121°C / 15			
						minutes			

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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