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B722	SIMMONS AGAR BASE							
Formula								
Ingredients			gms/li	it.				
Magnesium su		0.2		-				
	hydrogen phosphate	0.2						
Sodium ammonium phosphate 0.80								
Sodium chloride 5.00								
Bromo thymol blue 0.08								
Agar		15.						
Final pH (at 2	5°C) :	7.0 <u>+</u> C).2					
Directions :								
Suspend 21.3	gms in 900 ml. distille	ed wate	er. Boil to diss	olve the me	dium completely. A	dd 100 ml o	of 0.2% solution of	
	e to it. Mix well & distri							
minutes.					-,			
Principle :								
	m dihydrogen phospha	te is t	he sole source	e of nitroaen	in Simmons Agar B	Base. Magne	esium is a cofactor	
	f metabolic reactions.							
medium. Agar is the solidifying agent. Bromo thymol blue is the pH indicator. Organisms that can utilize ammonium								
dihydrogen phosphate as their sole sources of nitrogen and carbon will grow on this medium and produce a colour								
	reen (neutral) to blue				5		I.	
QC Tests – (I)Dehydrated Medium								
Colour :					Cream to Yellow			
Appearance :				Homogeneous Free Flowing powder				
(II)Rehydrated medium								
pH (post autoclaving/heating) :				7.0 ± 0.2				
Colour (post autoclaving/heating) :				Green forest green				
Clarity (post autoclaving/heating) :				Slightly opalescent				
	t Microbiological							
		ed afte	r an incubatio	n at 35-37°	C for 18-24 hours w	ith added 0.	2% solution of	
	Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours with added 0.2% solution of Sodium citrate.							
			GROWTH		COLOUR OF MEDIUM	CITRA	ATE UTILIZATION	
Enterobacter aerogenes (13048) Good			Good - Luxuria	nt	Blue	+		
			Good - Luxuria	nt	Blue	+		
Salmonella typhimurium (14028) Goo			Good - Luxuriant		Blue	+		
Salmonella typhi (6539) Fa			Fair to good		Green	-		
Escherichia coli (25922) In			Inhibited		Green	-		
			Inhibited		Green	-		
Precautions	1. For Laboratory Us	e.						
2. Follow proper, established laboratory procedures in handling and disposing of infectious m								
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to							
Linitations .	grow or grow poorly on this medium.							
 When inoculating a variety of biochemical, flame the inoculating loop or needle befor Simmons Citrate Agar or inoculate Simmons Citrate Agar first to avoid a false positive r 						r noodlo ho	fore streaking	
3. Some citrate positive organisms require 48 hours or longer incubation for a pH chan								
							inge to occur.	
Use : Recommended as a synthetic medium for differentiation between faecal colifor							d members of the	
	aerogenes group on t	progenes group on the basis of citrate utilization.						
Storage : Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.								
Packing : 500 gm bottle								
		Quantity on		pH (25°C) Supplement		Sterilization	
profile:			ration (500g)	p(25 C				
B722	21.3g/l	epu	23.474L	7.0 ± 0	.2 0.2% solution of	sodium	121ºC / 15	
	21.39/1		23.7776	/.0 ± 0	citrate	Souran	minutes	
		I					minuces	

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