

TECHNICAL SHEET

B986	CHRISTENSEN CITRATE AGAR				
Formula					
Ingredients:		gms/lit.			
Yeast extract		0.50			
L-cysteine hydrochloride		0.10			
Sodium citrate	3.00				
Dextrose (Glucose)		0.20			
Potassium dihydrogen phosphate		1.00			
Sodium chloride		5.00			
Phenol red		0.012			
Agar		15.00			
Final pH (at 25°C) : 6.9 ± 0.2					
Directions:					
Suspend 24.8 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Dispense into test tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool the tubes in a slanted position.					
Principle:					
Medium constituent yeast extract provides 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. Care should be taken while inoculating, as a too heavy inoculum may give a false positive result					
QC Tests - (I) Dehydrated Medium					
	Colour :	Light yellow to light pink			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	6.9 ± 0.2			
	Colour (post autoclaving/heating) :	Orange red			
	Clarity (post autoclaving/heating) :	Very slightly opalescent gel			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 24- 48 hrs. at 35-37°C.					
	MICROORGANISM (ATCC)	GROWTH	CITRATE UTILIZATION (COLOUR OF THE SLANT)		
	Escherichia coli (25922)	Luxuriant	Negative reaction, no colour change		
	Enterobacter aerogenes (13048)	Luxuriant	Positive reaction, cerise colour		
	Salmonella typhimurium (14028)	Luxuriant	Positive reaction, cerise colour		
	Salmonella enteritidis (13076)	Luxuriant	Positive reaction, cerise colour		
	Klebsiella pneumoniae (13883)	Luxuriant	Weakly positive, orange-pink colour		
	Shigella flexneri (12022)	Luxuriant	Negative reaction, no colour change		
	Shigella sonnei (25931)	Luxuriant	Negative reaction, no colour change		
Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
Limitations :	1. Before using water, ensure pH of water is 6.70-7.10. Initial colour of the medium may deviate from expected colour, if the above precaution is ignored. 2. The pH affects the performance of the medium and must be correctly monitored.				
Use:	For differentiation of enteric pathogens and coliforms based on citrate utilization.				
Storage:	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing:	500 gm. Bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B986	24.8g/l	20.16L	6.9 ± 0.2	Nil	121°C / 15 minutes

Refer disclaimer Overleaf

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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