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B155 CYSTINE TRYPTONE	AGAR							
Formula								
	gms/lit.							
Casein enzymic hydrolysate	20.00							
L-Cystine								
Sodium chloride	5.00							
Sodium sulphite	0.50							
Phenol red	0.017							
Agar	2.50							
Final pH (at 25°C) : 7.3 <u>+</u> 0.2								
Directions :								
Suspend 28.51 grams in 1000 ml								
completely. Dispense in tubes in 8-10								
(121°C) for 15 minutes. Cool to 50°C								
Mix well and allow the tubed medium t	to cool	in an uprig	ht positior	າ.				
Principle :								
Casein enzymic hydrolysate, L-cystine supplies the nutrients necessary to support the growth of								
fastidious microorganism. Carbohydrat								
medium due to the incorporation of								
metabolizes the carbohydrate presen								
acidified. However, the peptones pre								
present and yield substances that ar								
reddish-orange to yellow when the a								
greater than the alkaline end products red occurs around pH 6.8, near the ori				i. The colour change with phenoi				
QC Tests – (I)Dehydrated Medium	ginai p		ealum.					
Colour :			Light vollow to light pipk					
			Light yellow to light pink					
				Homogeneous Free Flowing powder				
(II)Rehydrated medium	7.3 ± 0.2							
				range to red lear to slightly opalescent				
Clarity (post autoclaving/heating)	escent							
(III)Q.C. Test Microbiological			-+ 25 27	00 for 4 10 hours on longon if				
Cultural characteristics observed a	arter ar	i incubation	at 35-37	°C for 4-18 hours or longer if				
necessary.								
MICROORGANISM (ATCC)	GROV	VIH	MOTILITY					
	Card			DEXTROSE				
Escherichia coli (25922)		-luxuriant	+	Positive reaction, yellow colour				
Neisseria meningitidis (13090)	Good		-	Positive reaction, yellow colour				
Neisseria gonorrhoeae (19424)	Good		-	Positive reaction, yellow colour				
Streptococcus pneumoniae (6303)				Positive reaction, yellow colour				
Key: For motility								
+ =positive, growth away from sta								
- = negative, growth along the state	abline,	surrounding	g medium	remains clear				

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Precautions :	1. For Laboratory Use.								
Flecautions.									
	2. Follow proper, established laboratory procedures in handling and disposing of								
	infectious materials.								
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be								
	encountered that fail to grow or grow poorly on this medium.								
	2. CTA requires a heavy inoculum.								
	3. Prolonged incubation may lead to changes in pH indicator or abnormal lactose								
	/ sucrose reactions with Neisseria pathogens.								
	4. Neisseria species usually produce acid only in the area of stabs (upper third).								
	If there is a strong acid (yellow color) throughout the medium, a contaminating								
	organism may be present. If in doubt about a tube containing a Neisseria								
	species, a Gram stain and oxidase test should be performed on the growth.								
Use :	For maintenance, subculturing, detection of motility etc. With added								
	carbohydrates, it can be also used for fermentation reactions of fastidious								
	organisms.								
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.								
Packing :	500 gm. Bottle								
Product profile:	Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization				
•		Preparation (500g)	,						
B155	28.51q/l	17.537 L	7.3 + 0.2	nil	121ºC / 15				
	5/ -				minutes				

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