

B497	DIFFERENTIAL AGAR FOR GROUP D STREPTOCOCCI				
Formula					
Ingredients:		gms/lit.			
Brain heart infusion		8.00			
Peptic digest of animal tissue		5.00			
Casein enzymic hydrolysate		16.00			
Dextrose		10.00			
Sodium chloride		65.00			
Disodium hydrogen orthophosphate		2.50			
Bromocresol purple		0.02			
Agar		13.50			
Final pH (at 25°C): 7.4 ± 0.2					
Directions:					
Suspend 12 grams in 100 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense in tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow to cool in a slanted position.					
Principle:					
Brain heart infusion, peptic digest of animal tissue and casein enzymic hydrolysate in the medium provide necessary nitrogenous compounds and other essential nutrients for growth. Dextrose is the energy source. Sodium chloride at 6.5% concentration makes the medium differential for Enterococcus and Streptococcus. Growth on this medium turns yellow due to acid production. A negative reaction is indicated by no change in the purple colour of the medium.					
QC Tests - (I) Dehydrated Medium					
Colour:		Cream to yellow			
Appearance:		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating):		7.4 ± 0.2			
Colour (post autoclaving/heating):		Purple			
Clarity (post autoclaving/heating):		clear to slightly opalescent gel			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after incubation at 35-37°C for 24-48 hours.					
MICROORGANISM (ATCC)		GROWTH		ACID PRODUCTION	
Enterococcus faecalis (29212)		luxuriant		positive reaction, yellow colour	
Enterococcus faecium (27273)		luxuriant		positive reaction, yellow colour	
Precautions :	1. For Laboratory Use. 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.				
Use:	It is used for the differentiation and identification of Group D Streptococci.				
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
B497	120.02 g/l	4.165 L	7.4 ± 0.2	Nil	121°C/ 15 minutes

Disclaimer:

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