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B425 BILE ESCULIN AZIDE AGAR							
Formula							
Ingredients :	gms,	/lit.					
Tryptone	17.0	0					
Proteose peptone	3.00						
Beef extract	5.00						
Oxgall	10.00						
Sodium chloride	5.00						
Esculin	1.00						
Ferric ammonium citrate	0.50						
Sodium azide	odium azide 0.15						
Agar 15.00							
Final pH (at 25°C) : 7.1	L <u>+</u> 0.2						
Directions :							
Suspend 56.65 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely.							
Sterilize by autoclaving at 15 lbs pres	ssure (1	121°C) for 15	minutes. Cool to 45-50°C	. Mix well and pour			
into sterile Petri plates.							
Principle :							
This highly nutritious medium becau	se of p	presence of ti	yptone, proteose peptone	and beef extract.			
Sodium azide inhibits growth of g	ram-ne	gative organi	sms and permits the cu	iltivation of faecal			
Streptococci. Escuin nydrolysis and	Dile	tolerance peri	mit isolation and identific	cation of group D			
Streptococci in 24 hours. Agar is the solidifying agent.							
		abt to modium	vollow				
		Ignit to medium yenow					
(II) Pehydrated medium	110	nomogeneous Free Flowing powder					
DH (post autoclaving/boating) :	7	1 ± 0 2					
Colour (post autoclaving/fiedulity).	/.	.1 ± 0.2					
Clarity (post autoclaving/heating) .							
(III) C Test Microbiological		Clear to slightly opalescent					
Cultural characteristics chear and ofter 19, 24 hrs at 25, 2700							
	ter 10						
MICROORGANISM (ATCC)			LSCOLIN HTDROLTSIS				
Enterococcus raecails (29212)		Luxuriant	+				
Drotous mirabilis (25022)			+				
Staphylococcus aurous (25022)		Luxuriant	-				
Staphylococcus aureus (25923)			-				
Kov – hlackoning of modium	~	None - poor	-				
rey: + = blackening of mediur	11						
- = no change				1			

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Precautions :	1 For Laboratory Lise								
	2 Follow proper established laboratory procedures in handling and disposing of								
	infectious materials								
	3 HARMELII Irritating to eves respiratory system and skin. Avoid contact with skin								
	and eves. Do not breathe dust. Wear suitable protective clothing. Keen container								
	tightly closed. Target organ(s) : Cardiovascular, Lungs, Nerves.								
	4. Sodium azide has a tendency to form explosive metal azides with plumbing materials.								
	It is advisable to use enough water to flush off the disposables.								
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. Staphylococcus aureus and Staphylococcus epidermidis may exhibit growth on the								
	medium (less than 1 mm, white - gray colonies), but they will show no action on the								
	esculin.								
	3. Other than the enterococci, Listeria monocytogenes consistently blackens the medium								
	around colonies. Afer 18-24 hrs., there may be a reddish to black – brown zone of								
	hydrolysis surrounding pinpoint Listeria colonies. After 48 hours, white – gray								
	pigmented colonies will be seen. Listeria do not attain the same degree of esculin								
	hydrolysis displayed by enterococci in this short incubation period.								
Use :	For isolation and presumptive identification of faecal Streptococci.								
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)							
B425	56.65g/l	8.826L	7.1 <u>+</u> 0.2	NIL	121ºC / 15 minutes				

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