

<b>B423</b>	<b>BILE ESCULIN AGAR W/ KANAMYCIN</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Pancreatic digest of gelatin		5.00			
Meat extract B#		3.00			
Bile##		20.00			
Ferric citrate		0.50			
Esculin		1.00			
Kanamycin		0.10			
Hemin		0.01			
Vitamin K1		0.01			
Agar		15.00			
# Equivalent to Beef extract					
## Equivalent to oxgall					
Final pH (at 25°C) : 7.1 ± 0.2					
<b>Directions :</b>					
Suspend 44.6 gms. in 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50° C and pour into plates. DO NOT OVERHEAT.					
<b>Principle :</b>					
The medium contains 4% oxgall that inhibits gram positive bacteria other than group D Streptococci and Enterococci. Enterococci and Group D Streptococci hydrolyze esculin to esculetin and dextrose, which reacts with ferric citrate producing brownish black precipitate. Peptic digest of animal tissue and beef extract provide essential nutrients and vitamins. Agar is the solidifying agent.					
<b>QC Tests - (I) Dehydrated Medium</b>					
Colour :		Cream to light yellow			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.1 ± 0.2			
Colour (post autoclaving/heating) :		Cream to medium amber			
Clarity (post autoclaving/heating) :		Clear to Slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 24 - 48 hrs at 35-37°C when incubated anaerobically.					
MICROORGANISM (ATCC )		GROWTH*		ESCULIN HYDROLYSIS	
Bacteroides fragilis (25285 )		Good - luxuriant		+	
Escherichia coli (25922)		None - poor		-	
Fusarium necrophorum (25286)		None - poor		-	
				-	
* If no growth occurs continue incubation upto 7 days.					
<b>Precautions :</b>					
1. For Laboratory Use.					
2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.					
3. IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. Target organ(s) : Lungs.					
<b>Limitations :</b>					
1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.					
<b>Use :</b>					
For selective isolation and presumptive identification of bacteria of the Bacteroides fragilis group from mixed flora.					
<b>Storage :</b>					
Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.					
<b>Packing :</b>					
500 gm. bottle					
<b>Product profile:</b>					
	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B423</b>	44.6g/l	11.210L	7.1 ± 0.2	NIL	121°C / 15 minutes

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**TECHNICAL SHEET**

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