

TECHNICAL SHEET

B1351		BILE ESCULIN AZIDE BROTH, MODIFIED			
Formula					
Ingredients :		gms/lit.			
Casein enzymic hydrolysate	17.00				
Peptic digest of animal tissue	3.00				
Yeast extract	5.00				
Oxgall	10.00				
Sodium chloride	5.00				
Esculin	1.00				
Ferric ammonium citrate	0.50				
Sodium azide	0.25				
Sodium citrate	1.00				
Final pH (at 25°C) :		7.1 ± 0.2			
Directions :					
Suspend 42.75 grams 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.					
Caution: 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.					
Principle :					
Casein enzymic hydrolysate, peptic digest of animal tissue and yeast extract serve as a source of carbon, nitrogen and essential nutrients. Sodium azide inhibits growth of gram-negative organisms and permits the cultivation of Enterococci and group D Streptococci. Oxgall inhibits gram-positive bacteria other than Enterococci. Sodium citrate acts as a buffering agent. Esculin is hydrolysed by Enterococci and group D streptococci to esculin which reacts with ferric ammonium citrate to form dark brown or black complex					
QC Tests – (I)Dehydrated Medium					
	Colour :	Cream to yellow			
	Appearance :	Homogeneous Free Flowing powder			
(II)Rehydrated medium					
	PH (post autoclaving/heating) :	7.1 ± 0.2			
	Colour (post autoclaving/heating) :	Amber			
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent solution with a bluish tinge.			
(III)Q.C. Test Microbiological					
	Cultural characteristics observed after 18 –24 hrs at 35-37°C.				
	MICROORGANISM (ATCC)	GROWTH	ESCULIN HYDROLYSIS		
	Enterococcus faecalis (29212)	Luxuriant	positive reaction, blackening of medium		
	Escherichia coli (25922)	None-poor	negative reaction		
	Staphylococcus aureus (25923)	Good	negative reaction		
	Streptococcus pyogenes (19615)	None - poor	negative reaction		
Precautions :					
1. For Laboratory Use.					
2. Follow proper, established laboratory procedures in handling & disposing of infectious materials.					
3. HARMFUL. 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) : Cardiovascular, Lungs, Nerves.					
Limitations :					
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 to differentiate between Enterococci and 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
B1351		42.75g/l	11.69 L	7.1 + 0.2	NIL
					121°C / 15 minutes

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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