

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B692	MODIFIED BILE ESCULIN AZIDE AGAR				
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			
Sodium citrate		1.00			
Esculin		1.00			
Ferric ammonium citrate		0.50			
Sodium azide		0.25			
Agar		13.50			
Final pH (at 25°C) : 7.1 ± 0.2					
Directions :					
Suspend 56.25 gms. in 1000ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes.					
Principle :					
Casein enzymic hydrolysate, peptic digest of animal tissue, yeast extract provide all essential growth nutrients. Streptococci hydrolyze esculin to esculetin which reacts with ferric ions to form a dark brown to black coloured complex. Oxgall inhibits most of the gram – positive bacteria other than Enterococci. Sodium azide inhibits gram – negative organisms except some Proteus species.					
QC Tests – (I)Dehydrated Medium					
Colour :		Yellow			
Appearance :		Homogeneous Free Flowing powder			
(II)Rehydrated medium					
pH (post autoclaving/heating) :		7.1 ± 0.2			
Colour (post autoclaving/heating) :		Medium amber			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
(III)Q.C. Test Microbiological					
Cultural characteristics observed after 24 hrs.at 35-37°C.					
MICROORGANISM (ATCC)	GROWTH	ESCULIN HYDRLYSIS			
Enterococcus faecalis (19433)	Luxuriant	+			
Streptococcus bovis (27960)	Luxuriant	+			
Staphylococcus aureus (25923)	Good	-			
Proteus mirabilis (25933)	Fair – good	-			
Streptococcus pyogenes (19615)	None – poor	-			
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 :					
	For selective isolation and enumeration 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
B692	56.25g/l	8.888L	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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