BIOMARK Laboratories-INDIA www.biomarklabs.com **TECHNICAL SHEET**

B1449 BILE ESCULIN AZIDE AGAR								
Formula								
Ingredients:	Gms/l	it						
Tryptone	17.00							
Peptone	3.00							
Yeast extract	5.00							
Oxgall	10.00							
Sodium chloride	5.00							
Esculin	1.00							
Ferric ammonium citrate	0.50							
Sodium azide		0.15						
Agar		13.00						
Final pH (at 25°C) : 7.1 <u>+</u> 0	.2							
Directions :								
Suspend 54.7gms. in 1000 ml. dist				nedium completely.				
Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 minutes.								
Caution: Sodium azide has a tenden			metal azides with plumbi	ng materials. It is				
advisable to use enough water to flush	off the	disposables.						
Principle :								
This highly nutritious medium because	e of pres	sence of Tryp	tone, Peptone and beef ext	ract. Sodium azide				
inhibits growth of gram-negative org								
hydrolysis and bile tolerance permit is	olation	and identifica	tion of group D Streptococ	ci in 24 hours. Agar				
is the solidifying agent.								
QC Tests – (I)Dehydrated Medium								
Colour :		Light to medium yellow						
Appearance :	HC	Homogeneous Free Flowing powder						
(II)Rehydrated medium								
PH (post autoclaving/heating) :		7.1 ± 0.2						
Colour (post autoclaving/heating)		Light to medium amber						
	Clarity (post autoclaving/heating) : Clear to slightly opalescent							
(III)Q.C. Test Microbiological								
Cultural characteristics observed af								
MICROORGANISM (ATCC)		GROWTH	ESCULIN HYDROLYSIS					
Enterococcus faecalis (29212)		Luxuriant	+					
Streptococcus bovis (27960)		Luxuriant	+					
Proteus mirabilis (25933)		Luxuriant	-					
Staphylococcus aureus (25923)		Good	-					
Streptococcus pyogenes (19615)		None - poor	-					
Escherichia coli (25922)		Inhibited						
Key : + = blackening of mediur	n							
- = no change								
Refer disclaimer Overleaf								

Page 01 of 02

BIOMARK Laboratories-INDIA www.biomarklabs.com TECHNICAL SHEET

Precautions :	1 For Laborato							
Fieldulions.	1. For Laboratory Use.							
	2. Follow proper, established laboratory procedures in handling and 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 :	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							
		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. Recommended by ISO							
	7899-2.							
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)						
B1449	54.7 g/l	9.14 L	7.1+ 0.2	NIL	121 ⁰ C / 15 minutes			
D1443	JT./ y/I	J.17 L	/.1 <u> </u> 0.2		IZI C/IJ IIIIIules			

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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

Page 02 of 02