## **BIOMARK Laboratories-INDIA**

## www.biomarklabs.com

## **TECHNICAL SHEET**

B1479	BILE ESCULIN AG	iAR				
Formula						
Ingredients:		gms/l	lit.			
Peptic digest of ar	nimal tissue	5.00				
Beef extract	3.00					
Bile salts	40.00					
Esculin	1.00					
Ferric citrate	0.50					
Agar	15.00					
Final pH (at 25°C): 6.6 <u>+</u> 0.2						
Directions:						
Suspend 64.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely.						
Dispense into tubes or flasks. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow the						
tubed medium to solidify in a slanted position with a butt of 2.5 cm deep or pour into sterile Petri plates.						
Principle:						
Peptic digest of animal tissue and beef extract serve as source of carbon, nitrogen and essential growth						
factors. Bile salts inhibit the accompanying gram-positive bacteria. Organisms hydrolyze esculin to						
esculetin and dextrose. Esculetin further reacts with ferric citrate to form a dark brown or black complex						
Esculin hydrolyzers hydrolyze the glycoside esculin to esculetin and dextrose.						
QC Tests - (I)Deh	ydrated Medium					
Colour :			Light yellow to brownish yellow			
Appearance:			Homogeneous Free Flowing powder			
(II)Rehydrated m						
pH (post autoclaving/heating) :			$6.6 \pm 0.2$			
Colour (post autoclaving/heating):			Yellow to amber			
Clarity (post autoclaving/heating):			Clear to Slightly opalescent			
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 18 –24 hrs at 35-37°C.						
MICROORGANISM (ATCC) GROV						
			I-Luxuriant Positive reaction, blackening of medium			
Streptococcus faecium (8482) Go			-Luxuriant   Positive reaction, blackening of medium			
			Luxuriant			
Escherichia coli (25922) Good			Negative reaction			
Precautions: 1. For Laboratory Use.						
<ol> <li>Follow proper, established laboratory procedures in handling and disposing infectious materials.</li> <li>IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with and eyes. Do not breathe dust. Wear suitable protective clothing. Keep contact.</li> </ol>						ng and disposing of
						ing. Keep container
tightly closed. Target organ(s) : Lungs.						
Limitations: 1. Since the nutritional requirements of organisms vary, some strains may						
	encountered that fail to grow or grow poorly on this medium.					
<b>Use:</b> For the isolation and identification of Yersinia enterocolitica from food and anim						
feeding stuffs. The composition and performance criteria of this medium are as per the						
	specifications laid down in ISO 10273:1994.					
Storage:	Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.					
Packing:	500 gm. bottle				T	_
Product profile:		uantity o		pH (25°C)	Supplement	Sterilization
		reparation				
B1479	64.5 g/l	7.75	1 L	6.6 + 0.2	NIL	Do not autoclave