## **BIOMARK Laboratories-INDIA**

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## **TECHNICAL SHEET**

**ESCULIN AGAR** 

B1017

Formula

FOITIUIA							
Ingredients: gms/lit.							
Casein enzymic hy	drolysate	13.					
Sodium chloride		5.0					
Yeast extract	5.00						
Meat heart infusion (solids)# 2.00							
Esculin		1.00					
Ferric citrate		0.5					
Agar	00						
# equivalent to Beef heart infusion solids							
Final pH (at 25°C)	: 7.3 <u>+</u> 0.2						
Directions :							
						medium completely.	
Distribute into screwcapped tubes in 3 ml volumes or as desired. Sterilize by autoclaving at 15 lbs pressure							
(121°C) for 15 min	nutes. Cool tubes	in a slant	ed position	١.			
Principle:							
Casein enzymic h	ydrolysate and b	eef heart	infusion (	solids) provid	le amino acids a	nd other nitrogenous	
substances that su	apport bacterial of	growth. Es	culin is a c	differentiating	agent, which he	lps in identification of	
						forms a brown black	
			citrate) (2	2). Blackenin	g of the agar m	edium in the area of	
growth indicates e							
QC Tests - (I)Dehy	drated Medium						
Colour:				Cream to yellow			
Appearance :			Homogeneous Free Flowing powder				
(II)Rehydrated medium							
pH (post autoclaving/heating) :			$7.3 \pm 0.2$				
Colour (post autoclaving/heating) :			Amber				
Clarity (post autoclaving/heating) :			Clear to slightly opalescent gel forms in tubes as slants				
(III)Q.C. Test Microbiological							
	teristics observed	d after 18-	24 hrs. at	35-37°C.			
MICROORGANISM (ATCC )		GROWTH	ESCULIN	HYDROLYSIS			
Escherichia coli (25922)			Good	LOCOLIN	-		
Enterococcus faecalis (29212)			Luxuriant		+		
Streptococcus pyogenes (19615)			Luxuriant				
Key: + = blackening of the medium			Luxuriant				
- = no change							
Precautions:							
Precautions:							
<ul><li>2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.</li><li>3. Warning: Sodium azide has a tendency to form explosive metal azides with</li></ul>						i disposing oi	
						l ==:d==;th	
	plumbing It is advisable to use enough water to flush off the disposables.						
limitations :	1. Since the nutritional requirements of organisms vary, some strains may be						
Limitations :	encountered that fail to grow or grow poorly on this medium.						
<b>Use:</b> It is a differential medium for demonstrating esculin hydrolysis by various						various	
Chaus as a	microorganisms						
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
Packing:	500 gm. bottle		П	(2525)		T 6: " .:	
Product profile:		,		pH (25°C)	Supplement	Sterilization	
D4047		Preparation		70 : 00	N.C.	12100 / 15	
<b>B1017</b> 41.5 g/l 12.05L 7.3 $\pm$ 0.					Nil	121°C / 15 minutes	
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