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TECHNICAL SHEET

B1094 L.D. ESCULIN AGAR								
Formula								
Ingredients:	gms	/lit.						
Tryptose	5.00							
Yeast extract	5.00							
Sodium chloride	2.50							
L-Tryptophan	0.20							
Vitamin K1	0.01							
L-Cystine	0.40							
Hemin	0.01							
Esculin	1.00							
Ferric citrate	0.50							
Agar	20.00							
Final pH (at 25°C): 7.4 <u>+</u> 0.2								
Directions :								
Suspend 34.62 gms.in 1000ml. dist				ssolve the mediur	n completely.			
Sterilize by autoclaving at 15 lbs pre	essure (121°C) f	or 15 minutes.					
Principle :								
Tryptose and yeast extract provide	the nitro	genous	nutrients to the	organisms. L-Tr	yptophan and			
L-Cystine serve as the amino aci								
esculetin and dextrose. The escule	tin reac	ts with t	he iron salt of	ferric citrate to pr	oduce a dark			
brown to black complex. Also L-	Cystine	is the s	ulphur containii	ng amino acid an	id hence H₂S			
production which in combination wit								
K1 and hemin are the additional g	rowth fa	ctors. E	Black colour of	H ₂ S positive color	nies is rapidly			
lost after exposure to air, hence obs	serve the	plates	in anaerobic glo	ve box or immedia	ately upon air			
exposure.		•	5		, ,			
QC Tests - (I)Dehydrated Medium								
Colour :	Yellow							
Appearance :	Homogeneous Free Flowing powder							
(II)Rehydrated medium				<u> </u>				
pH (post autoclaving/heating):	7.4 ± 0.2							
Colour (post autoclaving/heating)	Yellow							
Clarity (post autoclaving/heating):		Clear to slightly opalescent						
(III)Q.C. Test Microbiological								
	-48 hrs. at 35-37°C under anaerobic condition							
MICROORGANISM (ATCC)	GROWTH		ESCULIN	H ₂ S	CATALASE			
			HYDROLYSIS	PRODUCTION	5			
Bacteroidesfragilis (25285)	Luxuriant		+	-	+			
Bacteroidesasaccharolyticus	Luxuriant		-	-	-			

Bacteroidesasaccharolyticus		s Luxuriant	-	-	-				
Fusobacteriummortiferum		Luxuriant	+	+	-				
Precautions:	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 identification of anaerobic bacteria particularly Bacteroides species on the basis								
	of esculin hydrolysis.								
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.								
Packing:	500 gm bottle								
Product	Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization				
profile:		Preparation (500g)							
B1094	34.62g/l	14.44 lit	7.4 ± 0.2	Nil	121ºC/15min				

Refer Disclaimer overleaf

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Disclaimer:

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