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XLD AGAR AS PER B.P.								
Formula								
Ingredients : gms/lit.								
Yeast extract	3.00							
L-Lysine	5.00							
Lactose	7.50							
Sucrose	7.50							
Xylose	3.50							
Sodium chloride	5.00							
Sodium deoxycholate	2.50							
Sodium thiosulphate	6.80							
Ferric ammonium citrate	0.80							
Phenol red	0.08							
Agar	15.00	15.00						
Final pH (at 25°C) : 7.4 <u>+</u> 0.2								
Directions :								
Suspend 56.68 gms. in 1000 ml. distilled water. Heat with frequent agitation until the medium								
After Cooling, pour into starilo patri plato	AI. Transfer immeula	lefy to a water bath at 50°C.						
will require prelenged besting	s. It is advisable flot t	o prepare large volumes which						
Principle -								
Vost ovtract provides sources of pitro	and carbon as w	ull as vitamins and cofactors						
required for growth Xylose lactose	and sucrose (Saccha	rose) provide of fermentable						
carbohydrate Xylose is fermented	by most enteric or	anisms excent Shigella and						
Providencia. Lysine is added to differenti	ate Salmonella As x	vlose is exhausted Salmonella						
organisms decarboxylate lysine causing n	eversion to alkaline co	nditions Alkaline reversion by						
other lysine – positive organisms is preve	ented by excess acid p	roduction form fermentation of						
lactose and sucrose.								
Sodium Thiosulfate and Ferric Ammoni	ium citrate allow visu	alization of hydrogen sulfide						
production under alkaline conditions. Ac	idic conditions inhibit	the reaction. Phenol red is an						
indicator. Sodium chloride maintains os	motic balance in the	medium. Agar is a solidifying						
agent.								
Sodium Desoxycholate in XLD agar inhibit	ts growth of gram – po	sitive organisms.						
QC Tests – (I)Dehydrated Medium	C Tests – (I)Dehydrated Medium							
Colour :	Colour : Pink							
Appearance :	Homogeneous Fre	Homogeneous Free Flowing powder						
(II)Rehydrated medium	74400							
pH (post autoclaving/heating) :	7.4 ± 0.2	7.4 ± 0.2						
Colour (post autoclaving/heating) :	Red	Red						
Clarity (post autoclaving/heating) :	Clear to very sligh	itly opalescent						
(III)Q.C. Test Microbiological		700						
	$18 - 24$ hrs. at $35 - 37^{\circ}$ C.							
MICROORGANISM (ATCC)	GROWIH Good Innunionat	COLOUR OF COLONY						
Proteus vulgaris (13315)		Yellow						
Colmonollo enteritidio (12076)		Ped with black contors						
Salmonella paratyphi A		Red with black centers						
Salmonella paratyphi B		Reu Rod with black contors						
Salmonella typhi (6520)		Red with black centers						
Salmonella typhin (0000)	Good -luxuriant	Red with black contors						
Shigella sonnei (25031)	Good -luxuriant							
Shigella dysenteriae (13313)	Good -luxuriant	Ped						
Enterohacter aerogenes (13048)	Fair	Yellow						
Escherichia coli (25922)	Fair	Yellow						
Staphylococcus aureus (25923)	Partially inhibited	-						

Refer disclaimer Overleaf

Page 01 of 02

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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.						
	2. Red. false – positive colonies may occur with some Proteus and						
	Pseudomonas species.						
	3. Incubation in excess of 48 hours may lead to false – positive results.						
	4. S. paratyphi A, S. choleraesuis, S. pullorum and S. gallinarum may form red						
	colonies without black centers, thus resembling Shigella species.						
	5. Some Proteus strains will give black – centered colonies on XLD Agar.						
Use :	For selective isolation and enumeration of Salmonella typhi and othr						
	Salmonella species.						
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)					
B819	56.68 g/l	8.82 L	7.4 <u>+</u> 0.2	Nil	Donot		
	-				autoclave/ov		
					erheat.Boil		
					medium to		
					dissolve		
					w/frequent		
					agitation		

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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Page 02 of 02