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B399	R-2 A AGAR							
Formula								
Ingredients :		gms/lit.						
Casein acid hydrolysate		0.50						
Yeast extract		0.50						
Proteose peptone		0.50						
Dextrose		0.50						
Starch, soluble		0.50						
Dipotassium phosphate		0.30						
Magnesium sulphate		0.024						
Sodium pyruvate		0.30						
Agar		15.00	15.00					
Final pH (at 25°C) : 7.2 <u>+</u> 0.2								
Directions :								
Suspend 18.12 gms in 1000ml. distilled water. Boil to dissolve the medium completely. Sterilize by								
autoclaving at 15 lbs pressure (121°C) for 15 minutes. DO NOT OVERHEAT.								
Principle :								
Yeast Extract provides a source of trace elements and vitamins. Proteose peptone and Casein acid								
hydrolysate provide nitrogen, vitamins, amino acids, carbon and minerals. Dextrose serves as a carbon source. Soluble Starch aids in the recovery of injured organisms by absorbing toxic								
	ucts. Sodium pyru							
	d to balance the p⊢			nesium Sulfa	te is a sour	ce of		
	nd sulfate. Agar is t	he solidifyir	ig agent.					
QC Tests – (I)Dehydrated Medium								
Colour :			Cream to yellow					
Appearance :		Hor	Homogeneous Free Flowing powder					
(II)Rehydrated mo								
pH (post autoclaving/heating) :			7.2 ± 0.2					
Colour (post autoclaving/heating) :			Light to medium yellow					
Clarity (post autoclaving/heating) :		: Cle	Clear to slightly opalescent					
(III)Q.C. Test M								
	teristics observed a							
water samples from fields it is suggested to incubate further for up to 7 days to ascertain the								
absence of org			1			-		
MICROORGANISM (ATCC )			GROWTH					
Candida albicans (10231)			Good - Luxuriant					
Escherichia coli (25922)			Good - Luxuriant					
Escherichia coli (8739)			Good - Luxuriant					
Escherichia coli NCTC 9002			Good - Luxuriant					
Salmonella enteritidis (13076)			Good – Luxuriant					
Salmonella typhi (6539)			Good – Luxuriant					
Enterococcus fa			Good -Luxuriant					
Precautions : 1. For Laboratory Use.								
2. Follow proper, established laboratory procedures in handling and disposing								
	infectious materials.							

Refer disclaimer Overleaf

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Limitations :	<ol> <li>Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.</li> <li>R2A Agar is intended for use only with treated potable water since it is recommended for compromised bacteria.</li> <li>Use of the pour plate method is discouraged because recovery of stressed bacteria may be compromised by the heat shock (44-46°C) and low oxygen tension that are part of the procedure.</li> <li>Incubation time longer than indicated above may be necessary to recover additional slow – growing bacteria.</li> <li>R2A Agar performs best with the spread plate technique; however, that procedure is</li> </ol>							
	<ul> <li>limited to a small sample volume.</li> <li>6. Fast – growing bacteria may produce smaller size colonies on R2A Agar than on nutritionally rich media.</li> <li>7. R2A Agar is a low nutrient medium intended for culturing compromised microorganisms. Good growth of standard, healthy control organisms does not necessarily reflect the ability of the medium to recover stressed organisms. Each new lot</li> </ul>							
	of medium should be performance tested against a previous lot of R2A Agar using tap water.							
Use :	For heterotrophic plate count of treated potable water using longer incubation periods.							
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.							
Packing :	500 gm. bottle							
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization			
B399	18.12 g/l	27.59 L	7.2 <u>+</u> 0.2	Nil	121ºC/15 min.			
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## 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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