

TECHNICAL SHEET

BH399	AGAR MEDIUM S (R-2 A AGAR)			
Formula				
Ingredients:		gms/lit.		
Casein hydrolysate		0.50		
Yeast extract		0.50		
Proteose peptone		0.50		
Dextrose		0.50		
Starch, soluble		0.50		
Dipotassium hydrogen phosphate		0.30		
Magnesium sulphate		0.024		
Sodium pyruvate		0.30		
Agar		15.00		
Final pH (at 25°C):		7.2 ± 0.2		
Directions:				
Suspend 18.12 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes or as per validated cycle. DO NOT OVERHEAT. Cool to 45-50°C. Mix well and pour into sterile Petri plates.				
Principle:				
Yeast Extract provides a source of trace elements and vitamins. Proteose peptone and Casein 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 metabolic byproducts. Sodium pyruvate increases the recovery of stressed cells. Potassium phosphate is used to balance the pH and provide phosphate. Magnesium Sulfate is a source of divalent cations and sulfate. Agar is the solidifying agent.				
QC Tests – (I)Dehydrated Medium				
	Colour:	Cream to yellow		
	Appearance:	Homogeneous Free Flowing powder		
(II)Rehydrated medium				
	pH (post autoclaving/heating):	7.2 ± 0.2		
	Colour (post autoclaving/heating):	Light yellow		
	Clarity (post autoclaving/heating):	Clear to slightly opalescent		
(III)Q.C. Test Microbiological				
	Cultural characteristics observed by using standard ATCC cultures after an incubation at 35-37°C for 24-72 hours.			
	MICROORGANISM (ATCC)	GROWTH		
	Candida albicans (10231)	Good - Luxuriant		
	Escherichia coli (8739)	Good - Luxuriant		
	Salmonella enteritidis (13076)	Good - Luxuriant		
	Salmonella typhi (6539)	Good - Luxuriant		
	Enterococcus faecalis (29212)	Good -Luxuriant		
Precautions :		1. For Laboratory Use.		
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.		

Refer disclaimer Overleaf

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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. R2A Agar is intended for water samples for recovery of stressed or injured organisms.				
Use :	For heterotrophic plate count of treated potable water using longer incubation periods in accordance with BP.				
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 ± 0.2	Nil	121°C/15 min.

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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