

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B389	R-3 A AGAR		
Formula			
Ingredients :		gms/lit.	
Casein acid hydrolysate		1.00	
Yeast extract		1.00	
Biopeptone		1.00	
Dextrose		1.00	
Starch,soluble		1.00	
Dipotassium phosphate		0.60	
Magnesium sulphate		0.048	
Sodium pyruvate		0.60	
Agar		15.00	
Final pH (at 25°C) : 7.2 ± 0.2			
Directions :			
Suspend 21.25gms 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. 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 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 to medium yellow	
Clarity (post autoclaving/heating) :		Clear to slightly opalescent	
(III) Q.C. Test Microbiological			
Cultural characteristics observed after upto 7 days at 35-37°C.			
MICROORGANISM (ATCC)		GROWTH	
Candida albicans (10231)		Good - Luxuriant	
Escherichia coli (25922)		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. 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.				
	3. Incubation time longer than indicated above may be necessary to recover additional slow – growing bacteria.				
Use :	B389: For subculturing microorganisms recovered on less nutritive R-2A Agar from potable water samples.				
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
	B389	21.25 g/l	23.52L	7.2 ± 0.2	Nil

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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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