

B388	RS MEDIUM BASE				
Formula					
Ingredients :		gms/lit.			
Yeast extract		3.00			
Maltose		3.50			
L-cysteine hydrochloride		0.30			
L-lysine hydrochloride		5.00			
L-ornithine hydrochloride		6.50			
Sodium thiosulphate		6.80			
Ferric ammonium citrate		0.80			
Sodium deoxycholate		1.00			
Sodium chloride		5.00			
Bromo thymol blue		0.03			
Agar		13.50			
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 45.43 gms in 990ml. distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 45-50°C and aseptically add rehydrated content of 1 vial of Novobiocin supplement (BF083). Mix well before dispensing into sterile tubes.					
Principle :					
It is used for selective isolation and presumptive identification of <i>Aeromonas hydrophila</i> and other gram- negative bacteria based on their ability of decarboxylate lysine and ornithine, maltose fermentation and H ₂ S production. Yeast extract act as source of nutrients. Sodium thiosulphate, L-cysteine hydrochloride and ferric ammonium citrate are the indicators of H ₂ S production. Maltose fermentation is indicated by bromothymol blue. Sodium deoxycholate and Novobiocin inhibits gram – positive bacteria and <i>Vibrio</i> species.					
QC Tests – (I) Dehydrated Medium					
Colour :		Light green			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		Dark green			
Clarity (post autoclaving/heating) :		Clear			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 24 hrs at 35-37°C.					
MICROORGANISM (ATCC)		MALTOSE FERMENTATION	LYSINE/ORNITHINE DECARBOXYLATION	H ₂ S	
<i>Aeromonas hydrophila</i> (7966)		+	-	-	
<i>Citrobacter freundii</i> (8090)		-	V	+	
<i>Salmonella typhi</i> (6539)		+	-	-	
<i>Proteus vulgaris</i> (13315)		+	-	+	
<i>Escherichia coli</i> (25922)		-	V	-	
Key : Maltose fermentation, + = yellow coloured colonies Lysine and/or Ornithine decarboxylation = shades of greenish yellow to yellow H ₂ S production = black centered colonies. V = variable					
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 selective isolation, cultivation and presumptive identification of <i>Aeromonas hydrophila</i> .				
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
B388	45.43 g/l	11.00 L	7.0 ± 0.2	Nil	DO NOT AUTOCLAVE

Refer disclaimer Overleaf

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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