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FormulaIngredients:gms/lit.Proteose peptone10.00Yeast extract5.00Sodium thiosulphate10.00Sodium citrate10.00Bile8.00Sucrose20.00Sodium chloride10.00Ferric citrate1.00Bromo thymol blue0.040Thymol blue0.040Agar15.00						
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Agar 15.00						
Final pH (at 25°C: 8.6 <u>+</u> 0.2						
Directions:						
Suspend 89.08 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium						
completely. DO NOT AUTOCLAVE. Cool to 45-50°C. Mix well and pour	r into sterile Petri plates.					
Principle :						
Proteose peptone and yeast extract provide nitrogenous compounds,						
essential growth nutrients. Bile, a derivative of bile salts and sodium citrate inhibit gram-positive						
bacteria and coliforms. Sodium thiosulphate serves as a good s						
combination with ferric citrate detects the production of hydrogen su						
Vibrios, sucrose is added as a fermentable carbohydrate. Vibrio that						
from yellow colonies. Bromothymol blue and thymol blue are the pH i	ndicators.					
QC Tests – (I)Dehydrated Medium						
	Light yellow to light tan					
	Homogeneous Free Flowing powder					
(II)Rehydrated medium						
	8.6 ± 0.2					
	Bluish green					
Clarity (post autoclaving/heating) : Clear to slightly opalescent						
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 18 – 24 hrs. at 35-37°C.						
MICROORGANISM (ATCC) GROWTH COLOUR OF	COLONIES					
Vibrio cholerae (15748) Good - luxuriant Yellow						
Vibrio fluvialis (33809) Good – luxuriant Yellow						
Vibrio parahaemolyticus (17802) Good – luxuriant Bluish gree						
Vibrio vulnificus (29306) Fair to good Greenish y	ellow					
Escherichia coli (25922) Inhibited						
Proteus vulgaris (13315) Inhibited						
Enterococcus faecalis (29212) Inhibited						
Shigella flexneri (12022) Inhibited						
Precautions : 1. For Laboratory Use.						
2. Follow proper, established laboratory procedures in handling and disposing of						
infectious materials.						
3. IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with						
skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep						
container tightly closed.						

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Limitations :	1. Since the nutritional requirements of organisms vary, some strains may b					
	encountered that fail to grow or grow poorly on this medium.					
	2. Further tests are necessary for identification and confirmation of Vibrio spp.					
	3. On initial isolation, V. parahaemolyticus may be confused with Aeromonas					
	hydrophila, Plesiomonas shigelloides and Pseudomonas species.					
	4. Sucrose - fermenting Proteus species produce yellow colonies which ma					
	resemble those of Vibrio.					
	5. TCBS is an unsatisfactory medium for oxidase testing of Vibrio spp.					
	6. A few strains of V. cholerae may appear green or colourless on TCBS due to					
	delayed sucrose fermentation.					
Use:	For selective	isolation and o	cultivation o	f Vibrio chol	erae and other	
	enteropathogenic Vibrio's causing food-poisoning					
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)				
B042	89.08 g/l	5.612 L	8.6 ± 0.2	NIL	121ºC /15 min.	
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