BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B766 TCBS AGAR (S	SELECTIVE)
Formula	
Ingredients:	gms/lit.
Peptone, special	10.00
Yeast extract	5.00
Sodium thiosulphate	10.00
Sodium citrate	10.00
Oxgall	5.00
Sodium cholate	3.00
Sucrose	20.00
Sodium chloride	10.00
Ferric citrate	1.00
Bromo thymol blue	0.04
Thymol blue	0.04
Agar	15.00
Final pH at 25°C:	8.8 <u>+</u> 0.2
Directions:	·
Cuspand 90.00 grams in 1000	ml distilled water. Heat to boiling to dissolve the medium

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 and pour into sterile Petri plates.

Principle:

Yeast Extract and peptone, special provides the nitrogen, vitamins, and amino acids in TCBS Agar. Sodium Citrate, Sodium Thiosulfate and Oxgall are selective agents which provide an alkaline pH to inhibit gram – positive organisms and suppress coliforms. The pH of the medium is increased to enhance growth of Vibrio cholerae because this organism is sensitive to acid environments. Sucrose is a fermentable carbohydrate, and Sodium chloride stimulates growth. Sodium thiosulfate is a sulfur source and acts with Ferric Citrate as an indicator to detect hydrogen sulfide production. Thymol blue are pH indicators. Agar is a solidifying agent.

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Light yellow to light tan					
Homogeneous Free Flowing powder					
8.8 ± 0.2					
Bluish green					
to slightly opalescent					
Cultural characteristics observed after 18 – 24 hrs. at 35-37°C.					
TH COLOUR OF COLONIES					
luxuriant Yellow					
luxuriant Yellow					
luxuriant Bluish green					
good Greenish yellow					
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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 encountered that fail to grow or grow poorly on this medium.						
	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 may						
	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:		isolation and			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)					
B766	89.08 g/l	5.612L	8.8 ± 0.2	NIL	121°C /15 min.		

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