

TECHNICAL SHEET

B1809	Thiosulfate citrate bile and sucrose agar (TCBS)		
Formula			
Ingredients:	gms/lit.		
ISO 21872-1:2017(E), FDA BAM, IS:5887(Part V)	B1809- TCBS Agar		
Ingredients	g / L	Ingredients	g / L
Yeast extract	5.000	Yeast extract	5.00
Peptone	10.000	Proteose peptone	10.00
Sodium citrate	10.000	Sodium citrate	10.00
Sodium thiosulphate	10.000	Sodium thiosulphate	10.00
Dried bovine bile	8.000	Bile	8.00
Sucrose	20.000	Sucrose	20.00
Sodium chloride	10.000	Sodium chloride	10.00
Iron III citrate	1.000	Ferric citrate	1.00
Bromo thymol blue	0.040	Bromo thymol blue	0.040
Thymol blue	0.040	Thymol blue	0.040
Agar-agar	8.0-18.0	Agar	15.00
Final pH(at 25°C)	8.6±0.2	Final pH(at 25°C)	8.6±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 into sterile Petri plates.			
Principle :			
Proteose peptone and yeast extract provide nitrogenous compounds, vitamin B complex and other essential growth nutrients. Bile, a derivative of bile salts and sodium citrate inhibit gram-positive bacteria and coliforms. Sodium thiosulphate serves as a good source of sulphur, which in combination with ferric citrate detects the production of hydrogen sulphide. For the metabolism of Vibrios, sucrose is added as a fermentable carbohydrate. Vibrio that is able to utilize sucrose will form yellow colonies. Bromothymol blue and thymol blue are the pH indicators.			
QC Tests – (I)Dehydrated Medium			
	Colour :	Light yellow to light tan	
	Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/heating) :	8.6 ± 0.2	
	Colour (post autoclaving/heating) :	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 parahaemolyticus NCTC 10885	Good – luxuriant	green colonies
	Vibrio furnissii NCTC 11218	Good – luxuriant	green colonies
	Escherichia coli (25922)	Inhibited	--
	Escherichia coli ATCC 8739	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.		

Refer disclaimer Overleaf

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Limitations :	1. The medium should be inoculated heavily with faecal specimens because growth of few species may be inhibited on the medium due to fermentation of sucrose and accumulation of acids.				
	2. However, occasional isolates of Pseudomonas and Aeromonas may also form blue green colonies on TCBS Agar.				
	3. Proteus species that are sucrose-fermenters may form yellow colonies				
	4. TCBS Agar is not a suitable medium for oxidase testing of Vibrio species				
	5. TCBS Agar is highly selective for Vibrio species. Any H ₂ S negative colony of TCBS Agar can be considered presumptive positive for Vibrio				
	6. A few strains of V. cholerae may appear green or colourless on TCBS due to delayed sucrose fermentation				
	7. Further biochemical and serological tests must be carried out for complete identification.				
Use:	Recommended for selective isolation of Vibrio cholerae and other enteropathogenic Vibrio's. The composition and performance criteria of this medium are as per specifications laid down in IS: 5887(Part V), APHA, FDA BAM, ISO 21872-1:2017(E), ISO 11133:2014.				
Storage :	Dehydrated medium- below 30 ° C Prepared mediums– Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1809	89.08 g/l	5.612 L	8.6 ± 0.2	NIL	DO NOT AUTOCLAVE

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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