

TECHNICAL SHEET

PP030	TCBS Agar Plate				
Formula					
Ingredients:		gms/lit.			
Proteose peptone		10.00			
Yeast extract		5.00			
Sodium thiosulphate		10.00			
Sodium citrate		10.00			
Bile		8.00			
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): 8.6 ± 0.2					
Directions:					
Label the ready to use plate (PP030). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.					
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. Bromothymol blue and thymol blue are the pH indicators. For the metabolism of Vibrios, sucrose is added as a fermentable carbohydrate. Vibrio that is able to utilize sucrose will form yellow colonies. A few strains of V. cholerae may appear green or colorless on TCBS Agar due to delayed sucrose fermentation.					
(I) QC Tests					
	pH:	8.6 ± 0.2			
	Color:	Bluish green coloured medium.			
	Appearance:	Sterile TCBS Agar in 90X15mm disposable plates.			
(II) Sterility test		Passes release criteria			
(III) Q.C. Test Microbiological					
	Cultural characteristics observed after incubation at 35-37°C for 18-48 hours.				
	MICROORGANISM (ATCC)	INOCULUM	GROWTH	RECOVERY	COLOR OF COLONY
	Escherichia coli 25922	>=10 ³	inhibited	0%	bluish green
	Vibrio parahaemolyticus 17802 (00037*)	50-100	good-luxuriant	>=50%	cream pink
	Enterococcus faecalis 29212	>=10 ³	inhibited	0%	-
	Vibrio vulnificus 29306	50-100	Fair-good	>=50%	greenish yellow
	Vibrio fluvialis 33809	50-100	Good-luxuriant	>=50%	yellow
	Vibrio cholerae 15748	50-100	Good-luxuriant	>=50%	yellow
	Shigella flexneri 12022	>=10 ³	inhibited	0%	-

Refer disclaimer Overleaf

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Precautions :	1. In Vitro diagnostic use only.
	2. Read the label before opening the container
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. TCBS Agar is highly selective for Vibrio species. Any H ₂ S negative colony of TCBS Agar can be considered presumptive positive for Vibrio.
Use:	Recommended for the selective isolation of Vibrio cholerae and other enteropathogenic Vibrio's.
Storage:	Store between 2-8°C. Use before expiry date on the label.
Packing:	10/20/50 disposable plates.

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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