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TCBS AGAR

TCBS Agar is recommended for the selective isolation and cultivation of *Vibrio cholerae* and other enteropathogenic *Vibrio*'s causing food poisoning.

Composition**

Ingredients	Gms / Litre
Proteose peptone	10.000
Yeast extract	5.000
Sodium thiosulphate	10.000
Sodium citrate	10.000
Oxgall	8.000
Sucrose	20.000
Sodium chloride	10.000
Ferric citrate	1.000
Bromo thymol blue	0.040
Thymol blue	0.040
Agar	15.000

Final pH (at 25°C) 8.6±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 89.08 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely.

DO NOT AUTOCLAVE. Cool to 50°C and pour into sterile Petri plates.

Quality Control

Appearance : Light yellow to light tan homogeneous free flowing powder

Gelling : Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium : Bluish green coloured clear to slightly opalescent gel forms in Petri plates.

Reaction : Reaction of 8.9% w/v aqueous solution at 25°C. pH : 8.6±0.2

pH : 8.40-8.80

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth	Recovery	Colour of colony
Cultural Response				
<i>Enterococcus faecalis</i> ATCC 29212	≥10 ³	inhibited	0%	
<i>Escherichia coli</i> ATCC 25922	≥10 ³	inhibited	0%	
<i>Shigella flexneri</i> ATCC 12022	≥10 ³	inhibited	0%	
<i>Vibrio cholerae</i> ATCC 15748	50-100	good-luxuriant	≥50%	yellow
<i>Vibrio fluvialis</i> ATCC 33809	50-100	good-luxuriant	≥50%	yellow
<i>Vibrio parahaemolyticus</i> ATCC 17802	50-100	good-luxuriant	≥50%	bluish green
<i>Vibrio vulnificus</i> ATCC 29306	50-100	fair-good	≥30%	greenish yellow

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.