



Product Information

TCBS AGAR (THIOSULFATE CITRATE BILE SALTS SUCROSE AGAR)

Product Number **T1188**

Product Description

TCBS Agar is recommended for the selective isolation and cultivation of *Vibrios* causing cholera and *Vibrios* which cause food poisoning. TCBS Agar promotes rapid growth of pathogenic *Vibrios* after 24 hours incubation at 37°C. Proteose peptone and yeast extract provide nitrogenous compounds. Oxgall, a derivative of bile salts and sodium citrate inhibit gram-positive bacteria. Sodium thiosulfate serves as a good source of sulfur, which in combination with ferric citrate detects the production of hydrogen sulfide. For the metabolism of *Vibrios*, sucrose is added as a fermentable carbohydrate. Bromo thymol blue and thymol blue are pH indicators.

Components

Item	g/L
Proteose Peptone	10.00
Yeast Extract	5.00
Sodium Thiosulfate	10.00
Sodium Citrate	10.00
Oxgall	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

Precautions and Disclaimer

For laboratory use only. Not for drug, household or other uses.

Preparation Instructions

Suspend 89 grams of TCBS Agar in 1000 mls of distilled water. Boil to dissolve the medium completely.

Do Not Autoclave. Cool to 50°C and pour into sterile petri plates.

Storage

Store the dehydrated medium at 24°C and the prepared medium at 2-8° C.

Product Profile

Appearance	Light yellow colored, homogeneous, free flowing powder.
Gelling	Firm.
Color and Clarity	Bluish green colored, clear to slightly opalescent gel forms in petri plates.
Cultural Response.	Cultural characteristics observed after 18-24 hours at 35°C

Organisms	(ATCC)	Growth	Color
<i>Vibrio cholerae</i>	(15748)	good - luxuriant	yellow
<i>Vibrio fluvialis</i>		good - luxuriant	yellow
<i>Vibrio parahaemolyticus</i>	(17802)	good-luxuriant	blue
<i>Vibrio vulnificus</i>		fair-good	green yellow

References

- Howard, B., (1994). Clinical and Pathogenic Microbiology. 2nd Edition. The C.V. Mosby Co., Mosby-Year Book, Inc., St. Louis.
- American Type Culture Collection, Manassas, Va., U.S.A.

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