

## PRODUCT INFORMATION

TCBS Agar

Cat. No. T20-101

### DESCRIPTION

TCBS Agar medium is used for isolating and cultivating *Vibrio cholerae* and other *enteropathogenic*. TCBS is prepared according to the formula of Kobayashi et al. The pH of the medium is elevated to enhance the growth of *V. cholerae*. Sucrose is fermented by *V. cholerae* and its biotype Eltor producing yellowish-brown flat colonies. Fishbein et al. reported that *V. parahaemolyticus* produce light bluish colonies. Enteric bacteria, including *Proteus* spp. presented in fecal specimens are inhibited. TCBS Agar was also found useful in the isolation of *V. fluvialis* and *V. vulnificus*. Gram-positive bacteria are inhibited by the bile present in the medium. Bromothymol blue and thymol blue are pH indicators.

### FORMULA (g/L)

Enzymatic Digest of Casein	10.0 g	Yeast Extract	5.0 g
Sodium Citrate	10.0 g	Sodium Thiosulfate	10.0 g
Oxgall	8.0 g	Sucrose	20.0 g
Sodium Chloride	10.0 g	Ferric Ammonium Citrate	1.0 g
Bromothymol Blue	0.04 g	Agar	10.0 g

Final pH: 8.6 ± 0.2 at 25 °C

\*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

### PREPARATION

Mix 89 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring to dissolve completely. DO NOT AUTOCLAVE.

### QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and light beige.
2. Visually the prepared medium is opaque and greenish yellow.
3. Expected cultural response after 18-48 hours at 35 ± 2 °C.

ORGANISM	RESULT
<i>Enterococcus faecalis</i> ATCC 29212	Inhibited
<i>Escherichia coli</i> ATCC 25922	Inhibited
<i>Vibrio cholera</i> ATCC 15748	Good Growth – Yellow colonies
<i>Vibrio parahaemolyticus</i> ATCC 17802	Good Growth – Blue-green colonies

## STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.