

Vibrio species



Vibrio at a glance:

- Comma shaped gram negative rods
- Halophilic
- Oxidase positive
- Slightly more fastidious than other gastrointestinal pathogens
- Primary reservoir is marine environments
- Usually Implicated in gastrointestinal disease and soft tissue infections, and rarely causes systemic infection like sepsis or meningitis

Common species encountered in the routine Microbiology Lab:

- *V. cholerae*
- *V. parahaemolyticus*
- *V. vulnificans*
- *V. alginolyticus*
- *V. fluvialis*

TCBS Agar

(Thiosulfate-Citrate-Bile-Sucrose Agar) is a selective differential medium for isolating and cultivating *Vibrio cholerae* and other *Vibrio* species from clinical specimens and other materials. Uninoculated it has a bluish-green hue.



Para-Pak C&S Media

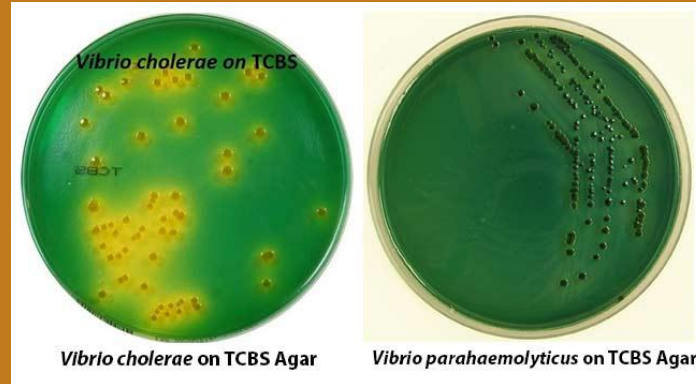
Para-Pak C&S uses a modification of Cary-Blair, which utilizes an isotonic non-nutritive, buffered solution to insure survival of bacterial pathogens and prevent overgrowth by commensal organisms. The medium is formulated to assure optimum recovery of *Salmonella*, *Shigella*, *Campylobacter*, *Vibrio*, and *Yersinia* for 96 hours.



TCBS is both selective and differential

High salt content inhibits growth of most gastrointestinal microbiota, and enriches growth of Vibrios.

Sucrose-fermenting vibrios such as *V. cholerae*, *V. alginolyticus*, and *V. fluvialis* appear as medium-sized, smooth, opaque, yellow colonies. Most other clinically important vibrios including *V. parahaemolyticus*, do not ferment sucrose and appear as green colonies



Means of identification in our lab

MALDI-TOF

V. cholerae
V. parahaemolyticus
V. vulnificus



VITEK

V. alginolyticus
V. cholerae
V. fluvialis
V. metschnikovii
V. mimicus
V. parahaemolyticus
V. vulnificus

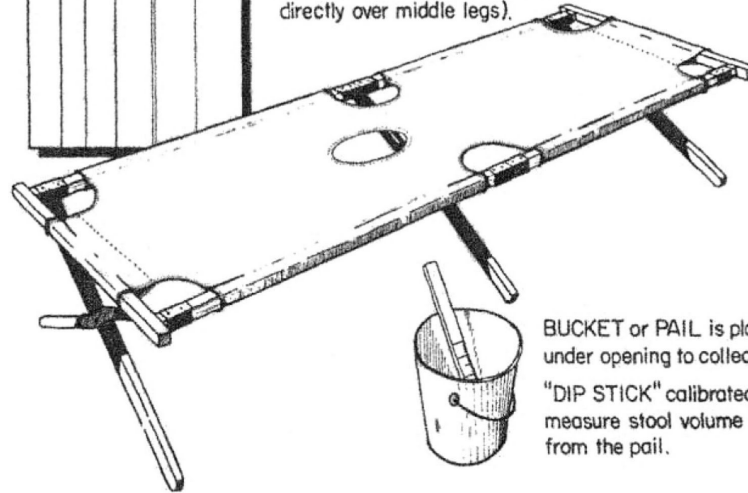


THE END

PT'S NAME		IN-TAKE		NO. OUTPUT	
DATE	TIME	WATER	DRINKS	STOOL	URINATION

DATA SHEET similar to this sample.
Kept at bedside and ALL intake-output recorded.

CHOLERA COT is an ordinary folding canvas cot with a 9" reinforced hole made just above middle. (NOT directly over middle legs).



BUCKET or PAIL is placed under opening to collect stool.

"DIP STICK" calibrated to measure stool volume directly from the pail.