TM 2327 - SALINE TRYPTONE / TRYPTOPHAN MEDIUM (ISO 8914:1990)

INTENDED USE

Recommended for detection of indole production by *Vibrio parahaemolyticus*.

PRODUCT SUMMARY AND EXPLANATION

Vibrio parahaemolyticus is a halophilic estuarine organism. This organism can be isolated from a variety of sea food product and marine environments. The organism, when isolated from fresh sea food, is usually found in low number and is sensitive to refrigeration and heat. Saline Tryptone/Tryptophane Medium is in accordance with ISO 8914:1990 recommended for detection of *Vibrio parahaemolyticus* on the basis of indole production.

Inoculate Saline Tryptone/ Tryptophan Medium with the suspected colony and incubate at 35-37ºC for 24hrs. After incubation add 1ml of Kovac's reagent. The formation of red ring indicates a positive reaction, while yellow-brown ring indicates a negative reaction.

COMPOSITION

Ingredients	Gms / Ltr
Tryptone	10.000
DL-tryptophane	1.000
Sodium chloride	30.000

PRINCIPLE

Tryptone provide nitrogenous compounds, sulphur, trace elements and vitamin B complex etc. High concentration of sodium chloride and alkaline pH of the medium provides condition that facilitates easy recovery of *V. parahemolyticus* and restrict the growth of other bacteria. *Vibrio parahemolyticus* break down tryptophane into indole and alpha-aminopropionic acid. The presence of indole in the medium can be detected by Kovac's reagent.

INSTRUCTION FOR USE

- Dissolve 41 grams in 1000 ml distilled water.
- Heat, if necessary to dissolve the medium completely.
- Mix well and dispense in quantities of 5ml into test tubes.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder
Appearance of prepared medium : Light yellow coloured clear solution
pH (at 25°C) : 7.50

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Indole test	Incubation Temperature	Incubation Period

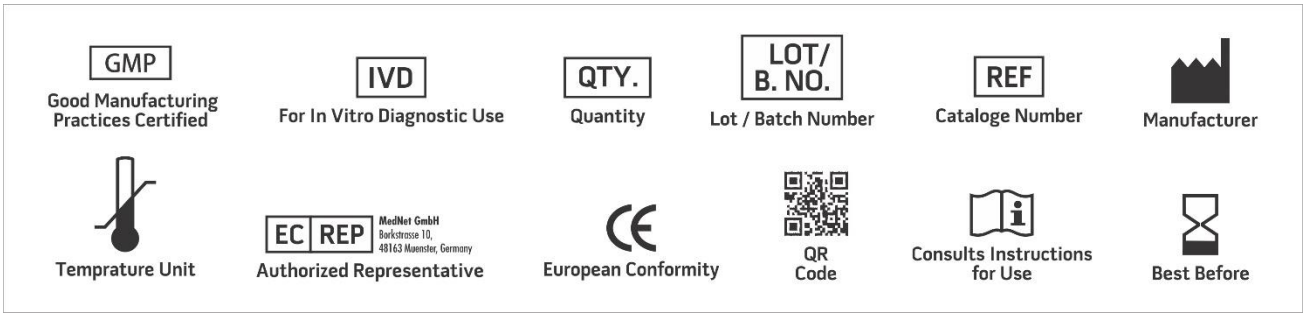
Vibrio parahaemolyticus	*17802*	50-100	Luxuriant	Positive reaction, red ring at the interface of the medium on addition of Kovac's reagent	35-37°C	18-24 Hours

PACKAGING:
In pack size of 500 gm bottles.

STORAGE
Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL
After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES
1. International Organization for Standardization (ISO), 8914:1990.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.
***For Lab Use Only**
Revision: 08 Nov., 2019