

Technical Information

Saline Tryptone / Tryptophan Medium

Product Code: DM 2779

Application: - Saline Tryptone/ Tryptophane Medium is used for identification of *Vibrio* species especially *Vibrio parahaemolyticus* on the basis of indole production.

Composition**

| Ingredients | Gms / Litre |
|--|-------------|
| Tryptone | 10.000 |
| DL-tryptophane | 1.000 |
| Sodium chloride | 30.000 |
| Final pH (after sterilization) at 25°C | 7.50 |

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Saline Tryptone/ Tryptophane Medium is in accordance with ISO 8914:1990 (1) recommended for detection of *Vibrio parahaemolyticus* on the basis of indole production.

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.

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 (R1008).

Inoculate Saline Tryptone/ Tryptophan Medium with the suspected colony and incubate at 35-37°C for 24 hrs. After incubation add 1ml of Kovac's reagent (R1008). The formation of red ring indicates a positive reaction, while yellow-brown ring indicates a negative reaction.

Methodology

Suspend 41 grams of dehydrated powder media in 1000 ml distilled water. Mix thoroughly & heat, if necessary to dissolve the medium completely. Shake well and dispense in quantities of 5ml into test tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder.

Colour and Clarity

Light yellow coloured clear solution.

Reaction

Reaction of 4.1% w/v aqueous solution at 25°C. pH : 7.50

pH Range

7.50

Cultural Response

DM2779: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.



Dehydrated Culture Media
Bases / Media Supplements

| Organism | Inoculum (CFU) | Growth | Indole test |
|---|-------------------|-----------|--|
| <i>Vibrio parahaemolyticus</i> ATCC 17802 | 50-100 | luxuriant | positive reaction, red ring at the interface of the medium on addition of Kovac's reagent(R1008) |

Storage and Shelf Life

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

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

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

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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