Tryptone salt agar, w/ 1% NaCl

M1877

Trptone salt agar, w/1% NaCl is used for differentiation of differentiation of El Tor and Classical biotypes of *Vibrio* in accordance with FDA BAM, 1998.

Composition**

Ingredients	Gms / Litre
Tryptone	10.000
Sodium Chloride	10.000
Agar	20.000

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 40.0 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. For slants, dispense into tubes Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Solidify tubes as slants or mix well and dispense into tubes as slants.

Principle And Interpretation

Members of the genus *Vibrio* are defined as Gram-negative, asporogenous rods that are straight or have a single, rigid curve. They are motile; most have a single polar flagellum, when grown in liquid medium. Different methods used for the confirmation of *Vibrio* species include physical, biochemical and serological assays(1). Tryptone salt agar w/ 1% NaCl is used for the growth of *Vibrio* sp. in accordance with FDA BAM (2) for differentiation of El Tor and Classical biotypes.

Blend the food sample to be analysed with Alkaline peptone water (APW) in appropriate ratio and incubate as per the recommendation by FDA BAM. Pure cultures can be isolated from APW by plating a loopful of the inoculum into TCBS agar. For biochemical and serological identification of *Vibrio* , colonies from crowded plates must be streaked to Tryptone salt agar, w/1% NaCl for purity. Incubate overnight at 35 ±2° C and proceed with identification using a single isolated colony for differentiation of Classic and El Tor biotypes. Further biochemical tests can also be done using colonies from this medium.

Quality Control

Appearance
Cream to yellow homogeneous free flowing powder

Gelling
Firm, comparable with 2.0% Agar gel

Colour and Clarity of prepared medium
Light yellow coloured clear to slightly opalescent gel forms in Petri plates

Cultural Response
Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Cultural Response

Organism	Inoculum (CFU)	Growth	Recovery
Cultural Response			
Vibrio cholerae ATCC 15748	50-100	good-luxuriant	>=50%
Vibrio parahaemolyticus ATCC 17802	50-100	good-luxuriant	>=50%

Storage and Shelf Life

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

Reference

1.Vera. 1944. J. Bact., 47.
2.FDA, U.S. 1998. Bacteriological Analytical Manual. 8 ed. Gaithersburg, Md. : AOAC International.

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