

Technical Information

Glucose Salt Teepol Broth (Part A & B)

Product Code: DM 1621S

Application: - Glucose Salt Teepol Broth is used for enrichment of *Vibrio parahaemolyticus* (marine isolates). It is recommended by BIS under the specifications IS: 5887 (Part V) 1976, reaffirmed 1986.

Composition**

Ingredients	Gms / Litre
Part A	-
Peptic digest of animal tissue	10.000
Meat extract	3.000
Sodium chloride	30.000
Glucose	5.000
Methyl violet	0.002
Part B	-
Teepol	4.000
Final pH (at 25°C)	7.4±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Glucose Salt Teepol Broth is used to enrich *Vibrio parahaemolyticus* from sea foods and also to enumerate the bacteria by MPN technique ⁽¹⁾. Present formulation is recommended by BIS ⁽²⁾ for enrichment of *Vibrio cholerae* and other *Vibrios* responsible for food poisoning in human beings.

Peptic digest of animal tissue and meat extract provide essential nitrogenous nutrients and high percentage of sodium chloride (3%) helps for the better enrichment of halophilic *Vibrio parahaemolyticus*. Glucose is utilized by the organism while teepol inhibits the migration of halophilic organisms and other gram-positive organisms. After overnight incubation at $35 \pm 2^\circ\text{C}$, a loopful of culture from top 1 cm of the broth showing growth is streaked onto TCBS Agar (DM1870S). *Vibrio parahaemolyticus* colonies on TCBS Agar appear as round, green or bluish measuring 2-3 mm in diameter, while *Vibrio alginolyticus* colonies are larger and yellow coloured. These colonies are further identified by biochemical characterization.

Methodology

Suspend 48 grams of Part A media in 1000 ml distilled water containing 4 ml of Part B media. Heat gently to dissolve the medium completely. When double strength broth is required the ingredients in double amount of part B are dissolved in 1000 ml water. Dispense in tubes as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Part A : Cream to yellow homogeneous free flowing powder Part B : Colourless viscous liquid

Colour and Clarity of prepared medium

Purple coloured clear solution with a very slight precipitate



Dehydrated Culture Media
Bases / Media Supplements

Reaction

Reaction of 4.8% w/v aqueous solution with 0.4% Teepol at 25°C. pH : 7.4±0.2

pH Range 7.20-7.60

Cultural Response/ characteristics

DM1621S: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth
<i>Vibrio alginolyticus</i> ATCC 17749	50-100	good-luxuriant
<i>Vibrio parahaemolyticus</i> ATCC 17802	50-100	good-luxuriant

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

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

Further Reading

1. Speck M.L. (Ed.), 1984, Compendium of Methods for the Microbiological Examination of Foods, 2nd ed., APHA. Washington D.C.
2. Bureau of Indian Standards, IS : 5887 (Part V) 1976, reaffirmed 1986.

Disclaimer :

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