

Technical Information

Glucose Salt Teepol MiVeg Broth (Twin Pack)

Product Code : VM1621

Application:- Glucose Salt Teepol MiVeg Broth is used for enrichment of *Vibrio parahaemolyticus* (marine isolates).

Composition

Ingredients Gms / Litre

Part A :

MiVeg peptone	10.00
MiVeg extract	3.00
Sodium chloride	30.00
Glucose	5.00
Methyl violet	0.002

Part B :

Teepol	4.00ml
Final pH (at 25°C)	8.8 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Glucose Salt Teepol MiVeg Broth is prepared by adding MiVeg peptone and MisssVeg extract in place of animal peptones thus making it free from BSE / TSE risks. Glucose Salt Teepol MiVeg Broth is the modification of Glucose Salt Teepol Broth which is used for *Vibrio parahaemolyticus* enrichment from sea foods and also used to enumerate the bacteria by MPN technique, as recommended by APHA (1).

MiVeg peptone and MiVeg extract supplies essential nitrogenous nutrients. Sodium chloride (3%) in this medium and alkaline pH selectively helps for the better enrichment of halophilic *Vibrio parahaemolyticus*. Glucose serves as easily metabolizable carbon source while teepol inhibits the migration of halophilic organisms and the growth of gram- positive organisms. After enrichment in this medium, a loopful of the growth can be streaked onto TCBS MiVeg Agar (VM1189). *Vibrio parahaemolyticus* colonies on TCBS MiVeg Agar appear as round, opaque, green or bluish measuring 2-3 mm in diameter, while interfering *Vibrio alginolyticus* colonies would grow as large, opaque and yellow colony. However these colonies should be further tested for biochemical characteristics.

Methodology

Suspend 48 grams of powder media in 1000ml (Part A) distilled water containing 4 ml of Part B. Mix well and heat gently to dissolve the medium completely. Dispense in tubes as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Part A : Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Part B : Light yellow coloured viscous liquid.

Colour and Clarity of prepared medium

Purple coloured, clear solution with a very slight precipitate.

Reaction

Reaction of 4.8% w/v of Part A with 0.4% v/v Part B aqueous solution is pH 8.8 ± 0.2 at 25°C.

pH Range

8.6 – 9.0

Cultural Response/Characteristics

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

Organisms (ATCC)	Inoculum (CFU)	Growth*	Growth**	Recovery**	Colour of colony
<i>Vibrio alginolyticus</i> (17749)	10 ² -2x10 ²	good-luxuriant	good-luxuriant	>70%	yellow
<i>Vibrio parahaemolyticus</i> (17802)	10 ² -2x10 ²	good-luxuriant	good-luxuriant	>70%	green to blue

Key : * = on Glucose Salt Teepol MiVeg Broth (VM 1621)

** = on TCBS MiVeg Agar (VM1189)

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 day.

Further Reading

- Downes, F.P and Ito, K (Eds.), 2001, Compendium of Methods For The Microbio-logical Examination of Foods, 4th ed., APHA, Washington, D.C.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
- Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents. Do not use the products if it fails to meet specifications for identity and performance parameters.