

## Glucose Salt Teepol Broth (Twin Pack)

### Intended Use

Glucose Salt Teepol Broth is used for enrichment of *Vibrio parahaemolyticus* and marine isolates.

### Summary

Glucose Salt Teepol Broth is a special media used to enrich *Vibrio parahaemolyticus* from sea foods and also used to enumerate the bacteria by MPN technique. *V. parahaemolyticus* is a Gram-negative marine bacterium, which causes seafood-borne gastroenteritis in humans. Fujino and co-workers were the first to isolate *Vibrio parahaemolyticus* as a causative agent of food-borne gastroenteritis, following a large outbreak in Japan.

### Principle

Peptic digest of animal tissue and beef extract provide essential nitrogenous nutrients and the high percentage of sodium chloride (3%) helps for the better enrichment of halophilic *V. parahaemolyticus*. Glucose is utilized while teepol inhibits the growth of Gram-positive organisms.

### Formula\*

Ingredients	g/L
<b>PART A</b>	
Peptic Digest of Animal Tissue	10.0
Beef Extract	3.0
Sodium Chloride	30.0
Glucose	5.0
Methyl Violet	0.002
<b>PART B</b>	
Teepol	4 mL
Final pH (at 25°C)	8.8 ± 0.2

\*Adjusted to suit performance parameters

### Storage and Stability

Store dehydrated medium below 30°C in tightly closed container and the prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

### Type of Specimen

Food samples

### Specimen Collection and Handling

Ensure that all samples are properly labelled.

Follow appropriate techniques for handling samples as per established guidelines.

Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure.

The samples must be stored and tested within the permissible time duration.

After use, contaminated materials must be sterilized by autoclaving before discarding.

### Directions

1. Dissolve 48.00 g of the powder of Part A in 1000 mL purified / distilled water and add 4.00 mL of Part B.
2. Mix thoroughly.
3. Heat gently to dissolve powder completely. Do not boil.
4. Dispense in tubes or adequate containers
5. Sterilize by autoclaving at 121°C (15 psi) for 15 minutes as per validated cycle.

### Quality Control

**Dehydrated appearance:** Part A: Light yellow coloured, homogenous, free flowing powder.

Part B: Yellow to amber coloured viscous liquid.

**Prepared Appearance:** Purple coloured, clear solution with or without slight precipitate.

**Cultural response:** Cultural characteristics observed after an incubation of 18-24 hours at 30°C-35°C.

### Organism (ATCC)

*Vibrio parahaemolyticus* (17802)

### Growth

Good

### Performance and Evaluation

Performance of the product is dependent on following parameters as per product label claim:

1. Directions
2. Storage
3. Expiry

### Precautions/Limitations

The test sample should be held under moderate refrigeration (about 7 to 10°C) and should be analyzed as soon as possible, after collection as possible. This maximizes the survival and recovery of *Vibrios* and reduces the tendency for overgrowth by indigenous marine microflora.

### Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

### Reference

1. Vanderzant C. and Splittstoesser D. F., (Eds.), 1992, Compendium of Methods for the Microbiological Examination of Foods, 3rd Ed., APHA, Washington, D.C.
2. Thompson F. L., T. Iida and Swings J., 2004, Biodiversity of *Vibrios*, Microbiol. Mol. Biol. Rev., 68: 403-431.
3. Fujino T., Okuno Y., Nakada D., Aoyama A., Fukai K., Mukai T. and Ueho T., 1953, Med. J. Osaka Univ., 4:299-304.
4. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

### Product Presentation:

#### Cat No.

201070060500

#### Product description

Dehydrated Culture Media

#### Pack Size

500 g

### Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.

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