

## Product Information

### 49281 Glucose Salt Teepol Broth

For selective enrichment and enumeration (MPN method) of *Vibrio parahaemolyticus* from foodstuffs.

#### Composition:

Ingredients	Grams/Litre
Meat extract	3.0
Peptone	10.0
Glucose	5.0
Sodium chloride	30.0
Methyl violet	0.002
Final pH 7.5 +/- 0.2 (at 25°C)	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder, in a dry place, in tightly-sealed containers at 2-25°C.

#### Directions:

Dissolve 48 g in 1 litre distilled water and add 4 ml Teepol (Cat. No. 86350). Sterilize by autoclaving at 121°C for 15 minutes.

#### Principle and Interpretation:

Glucose Salt Teepol Broth is used to enrich *Vibrio parahaemolyticus* from sea foods and also used to enumerate the bacteria by MPN technique.

Meat extract and Peptone provide essential nitrogenous nutrients and the high percentage of sodium chloride (3%) enhance the growth of halophilic *Vibrio parahaemolyticus*. Glucose is utilized by the organism while teepol inhibits the migration of halophilic organisms and the growth of the gram-positive organisms. After overnight incubation at 35±2°C, inoculate on TCBS Agar (Cat. No. 86348) plates with material from top 1 cm of the broth. After overnight incubation at 35±2°C, *Vibrio parahaemolyticus* colonies on TCBS Agar appear as round, green or bluish measuring 2.3mm in diameter, while *Vibrio alginolyticus* colonies are larger and yellow coloured. These colonies could be further identified by biochemical characterization.

Cultural characteristics after 18-24 hours at 35°C in Glucose Salt Teepol Broth.

Organisms (ATCC)	Growth
<i>Vibrio parahaemolyticus</i> (17802)	+++
<i>Vibrio alginolyticus</i> (17749)	+++

#### References:

1. R. Sakazaki, et al., J. Food Prot. 49, 773 (1986)
2. M.L. Speck, (Ed.), Compendium of Methods for the Microbiological Examination of Foods, 2<sup>nd</sup> ed., APHA Washington D.C. (1984)

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.