Technical Information

Alkaline Peptone Water

Product Code: DM 1618S

Application: Alkaline Peptone Water is recommended for enrichment of *Vibrio* species and meets the BIS specifications IS 5887 (Part - V) 1976, reaffirmed 1986.

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	10.000
Sodium chloride	5.000
Final pH (at 25°C)	8.2±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Alkaline Peptone Water is recommended by APHA for enrichment of *Vibrio* species from sea foods, infectious materials and other clinical specimens such as faeces [1, 2].Present formulation is prepared as recommended by BIS for isolation, identification and enumeration of *Vibrio cholerae* and *Vibrio parahaemolyticus* [3].A small modification has recently been approved by ISO Committee [4] for detection of *Vibrio* species. Add 25 gms of food sample to 200 ml of Alkaline peptone water and incubate for upto 18-20 hours at 37°C. Prolonged incubation will result the suppressed contaminating organisms to grow along with vibrio sps [5].

Methodology

Suspend 15 grams of powdered medium in 1000 ml distilled water. Shake well & heat if necessary to dissolve the medium completely.

Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured clear solution without any precipitate.

Reaction

Reaction of 1.5% w/v aqueous solution at 25°C. pH : 8.2±0.2

pH Range:- 8.00-8.40

Cultural Response/Characteristics

DM 1618S: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth
Vibrio cholera *ATCC15748*	50-100	luxuriant
Vibrio parahaemolyticus *ATCC 17802*	50-100	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: 2-8^0 in sealable plastic bags for 2-5 days.

Further Reading

1.Vanderzant C. and Splittstoesser D. (Eds.), 1992, Compendium of Methods For the Microbiological Examination of Foods, 3rd Ed.,APHA, Washington,D.C.

2.Cruikshank R., 1968, Medical Microbiol., 11th ed., Livingstone Ltd.<(>,<)>London.

3.Bureau of Indian Standards, IS : 5887, (Part V) 1976, reaffirmed 1986.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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