



Alkaline Peptone Water

M618S

Alkaline Peptone Water is recommended for enrichment of *Vibrio* species. It is in accordance with 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

Directions

Suspend 15 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Alkaline Peptone Water is recommended by APHA (1) for enrichment of *Vibrio* species from sea foods and infectious materials and other clinical specimens such as faeces (2). Present formulation is prepared as recommended by BIS for isolation, identification and enumeration of *Vibrio cholerae* and *Vibrio parahaemolyticus* (3). A slight modification is recently 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 cause the suppressed contaminating organisms to develop (5).

Quality Control

Appearance

Cream to yellow coloured 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

8.00-8.40

Cultural Response

M618S: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours .

Organism	Inoculum (CFU)	Growth
<i>Vibrio cholerae</i> ATCC 15748	50-100	luxuriant
<i>Vibrio parahaemolyticus</i> ATCC 17802	50-100	luxuriant

Storage and Shelf Life

Store below 30°C in tightly closed container and prepared medium at 2-8°C. Use before expiry date on the label.

Reference

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.

4. International Organization for Standardization (ISO), 1990, Draft ISO/DIS 8914.
5. Finegold, S.M. and Martin W.J., 1982, W.J. Bailey and Scott's Diagnostic Microbiol, 6th ed., C.V. Mosby Co., St. Louis p. 242.

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