

## 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 <sup>(1, 2)</sup>. Present formulation is prepared as recommended by BIS for isolation, identification and enumeration of *Vibrio cholerae* and *Vibrio parahaemolyticus* <sup>(3)</sup>. A small modification has recently been approved by ISO Committee <sup>(4)</sup> 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 <sup>(5)</sup>.

### 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<br>(CFU) | Growth    |
|----------------------------------------------|-------------------|-----------|
| <i>Vibrio cholera</i><br>ATCC15748           | 50-100            | luxuriant |
| <i>Vibrio parahaemolyticus</i><br>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<sup>0</sup> in sealable plastic bags for 2-5 days.



Dehydrated Culture Media  
Bases / Media Supplements

## 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.
- 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.

