Alkaline Peptone Water

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**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peptic digest of animal tissue</td>
<td>10.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>8.2±0.2</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Vibrio cholerae ATCC 15748</em></td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td><em>Vibrio parahaemolyticus ATCC 17802</em></td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
</tbody>
</table>

**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**


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