Alkaline Peptone Water

Alkaline Peptone Water is recommended for enrichment of *Vibrio parahaemolyticus*. The composition and performance criteria of this medium are as per the specifications laid down in ISO 1990, Draft ISO/DIS 8914.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peptic digest of animal tissue</td>
<td>20.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>30.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>8.6±0.2</td>
</tr>
</tbody>
</table>

**Formula adjusted, standardized to suit performance parameters**

**Directions**

Suspend 50 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**

Clinical materials containing small numbers of *Vibrio* should be inoculated into an enrichment medium prior to plating onto a selective medium, such as TCBS Agar (M189). Alkaline Peptone Water is a suitable enrichment broth for this purpose (1-3). This medium is recommended by APHA (4) for enrichment of *Vibrio* species from seafood, infectious materials and other clinical specimens such as faeces (5). A slight modification of this medium has recently been approved by the ISO Committee (6) for detection of *Vibrio* species.

Peptic digest of animal tissue provides amino acids and other nitrogenous substances. Sodium chloride maintains osmotic equilibrium.

Add 10 grams of seafood to 90 ml of Alkaline Peptone Water and incubate for up to 18-20 hours at 37°C. Prolonged incubation will result in growth of the suppressed contaminating organisms to develop (7). Growth in tubes is indicated by turbidity compared to an un-inoculated tube (control). Growth from the enrichment broth is used for plating on selective media. For biochemical identification a pure culture is recommended.

**Quality Control**

**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 5% w/v aqueous solution at 25°C. pH : 8.6±0.2

**pH**

8.40-8.80

**Cultural Response**

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.

*Please refer disclaimer Overleaf.*
Reference

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