Alkaline Peptone Water

Intended use

For enrichment of *Vibrio* species.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peptone</td>
<td>10.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>10.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>8.4±0.2</td>
</tr>
</tbody>
</table>

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

**Directions**

Label the ready to use LQ069 bottle. Inoculate the sample and incubate at specified temperature and time.

**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 (4-6).

The relatively high pH of the medium (approximately 8.4) provides a favourable environment for the growth of *Vibrio*.

This medium is recommended by APHA (8) for enrichment of *Vibrio* species from seafood, infectious materials and other clinical specimens such as faeces (2). Peptone provides amino acids and other nitrogenous substances. Sodium chloride maintains osmotic equilibrium. 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.

**Type of specimen**

Clinical samples: faeces; Food samples; Water samples

**Specimen Collection and Handling**

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (6,7). For food samples, follow appropriate techniques for sample collection and processing as per guidelines (8). For water specimens, follow appropriate techniques for sample collection, processing as per guidelines and local standards (1). After use, contaminated materials must be sterilized by autoclaving before discarding.

**Warning and Precautions**

In Vitro diagnostic Use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

**Limitations**

1. Further recovery from this enriched broth onto selective media is required.
2. Biochemical characterization is carried out from pure isolates for complete identification.

**Performance and Evaluation**

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

**Quality Control**

**Appearance**
Sterile clear Alkaline Peptone Water in bottles.

**Colour**
Colourless liquid with slight yellow tinge

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Please refer disclaimer Overleaf.
Quantity of Medium
5ml of medium in bottles.

Reaction
8.20-8.60

Sterility test
Passes release criteria

Cultural Response
Cultural characteristics observed after 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>Vibrio cholerae ATCC 15748</td>
<td>50-100</td>
<td>Luxuriant</td>
</tr>
<tr>
<td>Vibrio parahaemolyticus ATCC 17802 (00037*)</td>
<td>50-100</td>
<td>Luxuriant</td>
</tr>
</tbody>
</table>

Key: (*) Corresponding WDCM numbers.

Storage and Shelf Life
Store between 15-25°C. Use before expiry date on the label.
Product performance is best if used within stated expiry period.

Disposal
User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (6,7).

Reference

Revision: 02/2019
Disclaimer:

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