

Alkaline Peptone Water

LQ069

Intended use

Recommended for enrichment of *Vibrio* species.

Composition**

Ingredients	g / L
Peptone	10.000
Sodium chloride	10.000
Final pH (at 25°C)	8.4±0.2

**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 (1-3). The relatively high pH of the medium (approximately 8.4) provides a favourable environment for the growth of *Vibrio*'s. This medium is recommended by APHA (4) for enrichment of *Vibrio* species from seafood, infectious materials and other clinical specimens such as faeces (5). 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 food samples, follow appropriate techniques for sample collection and processing as per guidelines (4). For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards (6). For clinical samples follow appropriate techniques for handling specimens as per established guidelines (7,8). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

In Vitro diagnostic Use. For professional 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. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the
2. medium for any specific microorganism other than mentioned in the COA based on the user's unique requirement.
3. 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

Quantity of Medium

5ml of medium in bottles.

pH

8.20- 8.60

Sterility Check

Passes release criteria

Cultural Response

Cultural characteristics observed after 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 (00037*)	50-100	Luxuriant

Key : (*) Corresponding WDCM numbers.

Storage and Shelf Life

Store between 15-30°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 (7,8).

Reference

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3. Gilligan, Janda, Karmali and Miller, 1992, Cumitech 12A, Laboratory Diagnosis of Bacterial Diarrhea, Coord. Ed., Nolte, American Society for Microbiology, Washington, D.C.
4. Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.
5. Cruikshank R., 1968, Medical Microbiol., 11th Ed., Livingstone Ltd., London.
6. Lipps WC, Braun-Howland EB, Baxter TE, eds. Standard methods for the Examination of Water and Wastewater, 24th ed. Washington DC:APHA Press; 2023.
7. Isenberg, (Ed.), 1992, Clinical Microbiology Procedures Handbook, Vol. I, American Society for Microbiology, Washington, D.C.
8. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

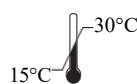
Revision: 04/2024



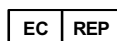
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**In vitro diagnostic
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Storage temperature



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CE Marking



**Do not use if
package is damaged**

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