

BBL™ Prepared Tubed Enrichment Medium for the Cultivation of *Vibrio* Alkaline Peptone Water

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2010/07

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INTENDED USE

Alkaline Peptone Water is an enrichment medium used for the cultivation of *Vibrio* species from feces and other infected materials.

SUMMARY AND EXPLANATION

Clinical materials containing small numbers of *Vibrio* species should be inoculated into an enrichment medium prior to plating onto a selective medium, such as TCBS Agar. 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 favorable environment for the growth of *Vibrio* species.

PRINCIPLES OF THE PROCEDURE

Enzymatic digest of casein provides amino acids and other complex nitrogenous substances necessary to support bacterial growth. Sodium chloride maintains the osmotic equilibrium.

REAGENTS

Alkaline Peptone Water

Approximate Formula* Per Liter Purified Water

Pancreatic Digest of Casein10.0 g
Sodium Chloride5.0 g

*Adjusted and/or supplemented as required to meet performance criteria.

Warnings and Precautions:

For *in vitro* Diagnostic Use.

Tubes with tight caps should be opened carefully to avoid injury due to breakage of glass. Pathogenic microorganisms, including hepatitis viruses and Human Immunodeficiency Virus, may be present in clinical specimens. "Standard Precautions"⁴⁻⁷ and institutional guidelines should be followed in handling all items contaminated with blood and other body fluids. Prior to discarding, sterilize prepared tubes, specimen containers and other contaminated materials by autoclaving.

Storage Instructions: On receipt, store tubes in the dark at 2 to 25°C. Avoid freezing and overheating. Do not open until ready to use. Minimize exposure to light. Tubed media stored as labeled until just prior to use may be inoculated up to the expiration date and incubated for recommended incubation times. Allow the medium to warm to room temperature before inoculation.

Product Deterioration: Do not use tubes if they show evidence of microbial contamination, discoloration, precipitation, evaporation or other signs of deterioration.

SPECIMEN COLLECTION AND HANDLING

Specimens suitable for culture may be obtained using various techniques. For more information, consult appropriate texts.^{1-3,8}

Observe established precautions against microbiological hazards throughout all procedures. All specimens should be handled according to CDC-NIH recommendations for any potentially infectious human serum, blood or other body fluids. Prior to discarding, sterilize specimen containers and other contaminated materials by autoclaving.

PROCEDURE

Material Provided: Alkaline Peptone Water

Materials Required But Not Provided: Ancillary culture media, reagents, quality control organisms and laboratory equipment as required for this procedure.

Test Procedure: Observe aseptic techniques. Inoculate the medium as soon as possible after the specimen arrives at the laboratory. Swab specimens may be inserted directly into the medium. Material not being cultured from a swab may be transferred directly to the medium using a sterile inoculating loop. For fecal specimens, aseptically transfer approximately 1 g of the sample to the medium and mix well. If the feces are received in a preservative, transfer 2 to 3 mL of the fecal specimen to the medium.

Incubate at 35°C for 6 to 12 h. Subculture onto a selective medium, such as TCBS Agar. Incubate subcultured plate at 35°C for 24 to 48 h.

USER QUALITY CONTROL:

1. Examine the tubes for signs of deterioration as described under "Product Deterioration."
2. Check performance by inoculating a representative sample of tubes with a pure culture of the control organism.

TEST STRAIN	EXPECTED RESULTS
<i>Vibrio cholerae</i> ATCC™ 9458	Growth upon subculture

Quality control requirements must be performed in accordance with applicable local, state and/or federal regulations or accreditation requirements and your laboratory's standard Quality Control procedures. It is recommended that the user refer to pertinent NCCLS guidance and CLIA regulations for appropriate Quality Control practices.

RESULTS

Growth in tubes is indicated by turbidity compared to an uninoculated control. Subculture growth onto selective and nonselective media for isolation and identification.

LIMITATIONS OF THE PROCEDURE

This prepared tube medium is intended to be used as an enrichment medium. A pure culture is recommended for biochemical tests and other identification procedures. Consult appropriate texts for further information.^{1-3,9,10}

PERFORMANCE CHARACTERISTICS

Prior to release, all lots of Alkaline Peptone Water are tested to verify specific product characteristics. Samples are tested with cell suspensions of *Vibrio cholerae* ATCC 9458, diluted to the equivalent of a 0.5 McFarland turbidity standard. Tubes are incubated with loose caps at 35 – 37°C for one day in an aerobic atmosphere. Turbid tubes are subcultured to **BBL** Chocolate II Agar and/or **BBL** TCBS Agar plates and incubated at 35 – 37°C. Fair to heavy growth is observed.

AVAILABILITY

Cat. No. Description

297814 **BBL™** Alkaline Peptone Water, 8 mL, pkg. Of 10 size D tubes.

REFERENCES

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