

TECHNICAL DATA SHEET

Alkaline Peptone Water

Principle

Alkaline Peptone Water is a broth medium for the enrichment of *Vibrio species* from food, water and clinical samples. Alkaline Peptone Water is a modification of peptone water with the pH adjusted to 8.4. Peptone provides nitrogen and carbon source, long chain amino acids, vitamins and other essential nutrients. The 1.0 % (w/v) sodium chloride incorporated in this medium promotes the growth of *Vibrio cholerae*, while the alkalinity of this medium inhibits most of the unwanted background flora. The Alkaline Peptone Water medium can be used to effectively cultivate *Vibrio species*. It is a suitable enrichment broth for this purpose.

Use: For the cultivation of *Vibrio species* from sea foods and clinical specimens.

Contents*

Ingredients	Gram/Litre
Peptone	10.000
Sodium Chloride	10.000
pH at 25°C	8.4 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 20.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute aseptically if required. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.

Specimens' types analyzed

Food, water and pharmaceutical samples, clinical and non-clinical samples etc.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

OXFORD LAB FINE CHEM LLP

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Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Beige colored free flowing, homogeneous powder
Reaction of 2.00% solution	8.4 ±0.2 at 25 °C
pH	8.20- 8.60
Color and clarity of ready medium	Pale yellow colored, clear solution and without any precipitate
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Prepare media as per the label directions. Inoculate and incubate at 35 ± 2°C for 18-24h

Organism	ATCC no.	Inoculum (CFU)	Growth
<i>Vibrio cholerae</i>	15748	50-100	Luxurious
<i>Vibrio parahaemolyticus</i>	17802	50-100	Luxurious

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.

Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

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Reference

1. *Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.*
2. *Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.*
3. *Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976). Standard methods for the examination of water and wastewater. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.*

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