



## Alkaline Peptone Water

**RDM-APW-01**

### 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:** Recommended for enrichment of *Vibrio species* from food, water and clinical and non- clinical samples and for biochemical identification a pure culture.

### 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.

### 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

<b>Appearance</b>	Beige colored free flowing, homogeneous powder
<b>Reaction of 2.0% solution</b>	8.4 ±0.2 at 25 °C
<b>pH</b>	8.20- 8.600
<b>Color and clarity of ready medium</b>	Pale yellow colored opalescent solution
<b>Growth Promotion properties</b>	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
<b>Indicative properties</b>	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
<b>Negative control</b>	Performed using sterile distilled water

## Different Microbial Response

Organism	ATCC	Inoculum	Growth	Incubation Temperature	Incubation period
<i>Vibrio cholerae</i>	15748	50-100	Luxurious	33-37 °C	18-48 h

## Storage and Shelf Life

Hygroscopic; keep container tightly closed. Store in cool dry place.

**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.

## 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.

## Disclaimer

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