

TECHNICAL DATA SHEET

Alkaline Saline Peptone Water (ASPW)

Principle

Alkaline Saline 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 8.6. Peptone provides nitrogen and carbon source, long chain amino acids, vitamins and other essential nutrients. The 2% (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 enrichment of *Vibrio species* from food and water samples.

Contents*

| Ingredients | Gram/Litre |
|-----------------|------------|
| Peptone | 20.000 |
| Sodium Chloride | 20.000 |
| pH at 25°C | 8.6 ±0.2 |

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 40.00 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

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.

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Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com



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 4.0% solution | 8.6 ±0.2 at 25 °C |
| pH | 8.40- 8.80 |
| Color and clarity of ready medium | Pale yellow colored opalescent solution |
| 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: Cultural characteristics observed after incubation at 35±2°C for 18-48 hours. (Inoculum 50-100 CFU).

| Organism | ATCC | Growth |
|--------------------------------|-------|-----------|
| <i>Vibrio cholerae</i> | 15748 | Luxuriant |
| <i>Vibrio parahaemolyticus</i> | 17802 | Luxuriant |

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. *ISO/TS 21872-1:2017. Horizontal method for the detection of the two main pathogenic Vibrio species causing intestinal illness in humans: V. parahaemolyticus and V. cholera.*
4. *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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