

TECHNICAL DATA SHEET

ALKALINE SALINE PEPTONE WATER (ASPW)

ENRICHMENT OF *VIBRIO*

1 INTENDED USE

Alkaline saline peptone water (ASPW) is used as a primary and secondary enrichment medium for the detection of *Vibrio* spp. in human and animal food products as well as environmental samples.

The typical composition meets food microbiology standard NF EN ISO 21872-1.

2 TYPICAL COMPOSITION

The composition can be adjusted in order to obtain optimal performance.

For 1 liter of media:

- Peptone 20.0 g
- Sodium chloride 20.0 g

pH of ready-to-use medium at 25 °C: 8.6 ± 0.2.

3 PREPARATION

- Dissolve 40.0 g of dehydrated media (BK219) in 1 liter of distilled or demineralized water.
- Dispense into tubes or vials.
- Sterilize in an autoclave at 121 °C for 15 minutes.
- Cool to room temperature.

✓ **Reconstitution:**
40 g/L

✓ **Sterilization:**
15 min at 121 °C

4 INSTRUCTIONS FOR USE

Detection of *Vibrio parahaemolyticus* and *Vibrio cholerae*

- Introduce aseptically X g of sample into 9X mL of prepared medium.
- Mix well.
- Incubate for 6 ± 1 h at 37 ± 1 °C for deep frozen, dried or salted products and at 41.5 ± 1.0°C for fresh products.
- Transfer 1 mL of the obtained culture into a tube of 10 mL of media.
- Incubate for 18 ± 1 hours at 41,5 ± 1,0 °C for *Vibrio parahaemolyticus* et *Vibrio cholerae* enrichment and at 37 ± 1 °C for *Vibrio vulnificus* enrichment.

✓ **Primary enrichment:**
x g in 9x mL

✓ **Incubation:**
6 h at 37°C or 41.5°C

✓ **Secondary enrichment:**
1 mL in 10 mL

✓ **Incubation:**
18 h at 37°C or 41.5°C

NOTE:

For the detection of *Vibrio* spp., enrichments must be incubated only at 37°C.

5 RESULTS

Re-streak the culture obtained onto TCBS agar and a second solid selective medium (left to the choice of the laboratory).

6 QUALITY CONTROL

Dehydrated media: cream-white powder, free-flowing and homogeneous.

Prepared medium: limpid, colorless solution.

Typical cultural response after 18 hours of incubation at 41,5 °C.

Microorganisms		Growth
<i>Vibrio furnissii</i>	DSM 14383	Good growth
<i>Vibrio parahaemolyticus</i>	WDCM 00185	Good growth

7 STORAGE / SHELF LIFE

Dehydrated medium: 2-30 °C.

The expiration date is indicated on the label.

Prepared medium in vials or tubes (*): 180 days at 2-25 °C.

(*) Benchmark value, determined in standard conditions of preparation, following manufacturer's instructions.

8 PACKAGING

Dehydrated medium:

500 g bottle..... BK219HA

9 BIBLIOGRAPHY

NF EN ISO 21872-1. September 2017. Microbiology of the food chain - Horizontal method for the determination of *Vibrio* spp. - Part 1: Detection of potentially enteropathogenic *Vibrio parahaemolyticus*, *Vibrio cholerae* and *Vibrio vulnificus*.

10 ADDITIONAL INFORMATION

The information provided on the labels take precedence over the formulations or instructions described in this document and are susceptible to modification at any time, without warning.

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Motif of revision: reference modification and correction of the instruction for use according to the NF EN ISO 21872-1