



BUFFERED PEPTONE WATER – BAG

ENGLISH

Ready to use liquid medium in bag for pre-enrichment of *Salmonella* spp. in food (ISO 6579)

TYPICAL FORMULA (g/l)

Tryptone	10.0
Sodium Chloride	5.0
Disodium Phosphate	3.5
Monopotassium Phospahte	1.5
Final pH 7.0 ± 0.2	

DESCRIPTION

BUFFERED PEPTONE WATER – BAG is a ready to use liquid medium in bag for the pre-enrichment of *Salmonella* spp. in food according to ISO 6579. The bags can be placed on special supports, connected to sterile tubes with the aid of specific joints and used with diluters, peristaltic pumps or, simply, you can bring the liquid to fall.

METHOD PRINCIPLE

Tryptone provides amino acids and proteins. Sodium chloride maintains the osmotic balance of the medium. Disodium phosphate and monopotassium phosphate are buffering agents.

TECHNIQUE

1. Inoculate 10 g or 10 ml of sample in 100 ml of BUFFERED PEPTONE WATER and incubate at 36±1°C for 16-20 hours
2. Transfer 0.1 ml of the culture in 10 ml of RAPPAPORT VASSILIADIS BROTH (ref. 610175) and a second aliquot of 1 ml in 10 ml of MULLER KAUFFMANN BROTH (ref. 610034) supplemented with NOVOBIOCIN Supplement (ref. 81021).
3. Incubate RAPPAPORT VASSILIADIS BROTH medium at 42±1°C for 18-24 hours. Incubate the tubes of MULLER KAUFFMANN BROTH + NOVOBIOCIN Supplement at 36±1°C for 18-24 hours
4. Immerse a sterile loop in RAPPAPORT VASSILIADIS BROTH tube and inoculate 2 plates (90 mm) of XLD AGAR (ref. 10056) or of another selective medium for *Salmonella* spp. Load the loop once and streak the two plates consecutively. With the same technique inoculate other two plates using the culture in MULLER KAUFFMANN BROTH + NOVOBIOCIN SUPPLEMENT.
5. Incubate the plates at 36±1°C for 18-24 hours and observe for the presence of typical colonies. In case of poor growth or no growth reincubate the plates for other 18-24 hours.

RESULTS INTERPRETATION

Confirm suspect colonies transplanting in advance on NUTRIENT AGAR (ref. 10044). Identify colonies performing biochemical and serological tests.

QUALITY CONTROL

1. Control of general characteristics, label and print.
2. Sterility control:
 - 2 days at 22 ± 2°C, in aerobiosis.
 - 1 day at 36 ± 2°C, in aerobiosis.
3. Microbiological control.

Inoculum for productivity: 10-100 CFU/ml.
 Inoculum for selectivity: 10⁴-10⁵ CFU/ml.
 Inoculum for specificity: ≤ 10⁴ CFU/ml.
 Incubation conditions: 18-24 h at 35 ± 2°C.

Microorganism		Growth	Indole test
<i>Escherichia coli</i>	ATCC 19433	Good	Positive (red ring)
<i>Salmonella typhimurium</i>	ATCC 14028	Good	Negative
<i>Proteus mirabilis</i>	ATCC 25933	Good	Negative
<i>Pseudomonas aeruginosa</i>	ATCC 27853	Good	Negative

STORAGE AND TRANSPORT CONDITIONS

10-25°C away from light, until the expiry date on the label. Storage or transport at 2-10°C do not alter in any way the performance of the product. Eliminate if signs of deterioration or contamination are evident.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product must be used only by properly trained operators.


DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.










REFERENCES

- Edel, W., and E.H. Kampelmacher (1973). Bull. Wld. Hlth. Org. 48: 167-174.
- ISO 6579 - Microbiology of food and animal feeding stuffs – Horizontal method for the detection of *Salmonella* spp. 2002-07-15.
- Anon. (1975) – Meat and meat products detection of *Salmonella*. International standards. 150, 3565-1975 (E) Geneva: International Organisation for Standardisation.

PACKAGING

Product	REF	
BUFFERED PEPTONE WATER – BAG	499030	3 bags x 3 litres
BUFFERED PEPTONE WATER – BAG	499035	3 bags x 5 litres

TABLES OF SYMBOLS

 Batch number	 Do not reuse	 Manufacturer	 Use by	 Fragile, handle with care
 Catalogue number	 Temperature limits	 Contains sufficient for <n> tests	 Attention, see instructions for use	



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