

BUFFERED PEPTONE WATER II

Pre-enrichment medium for *Salmonella spp* isolation from foods according to ISO 6579.

TYPICAL FORMULA (g/L)

Peptone	10.0
Sodium Chloride	5.0
Disodium Phosphate	3.5
Monopotassium Phosphate	1.5
Final pH= 7.0 ± 0.2	

DESCRIPTION

BUFFERED PEPTONE WATER II is recommended by ISO 6579 as a non selective medium for the pre-enrichment phase in the procedure of *Salmonellae* isolation from foods and water to increase recovery.

PRINCIPLE

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

PREPARATION

Suspend 20 g of powder in 1 litre of distilled or deionized water. Heat to boiling until completely dissolved. Sterilise at 121°C for 15 minutes. Dispense in final containers.

TECHNIQUE

Aseptically add 10 g of sample to 50 ml of Buffered Peptone Water II and incubate at 36+/-1°C for 18 hours. Transfer 10 ml of this inoculum to 100 ml of Muller Kauffmann Broth and incubate at 43°C for 24-48 hours. Subculture this inoculum on Brilliant Green Agar and incubate at 36+/-1°C for 18 hours.

INTERPRETATION of RESULTS

Microbial growth is indicated by turbidity of the medium.

STORAGE

10-30°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. 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

1. Edel, W., and E.H. Kampelmacher (1973). Bull. Wld. Hlth. Org. 48: 167-174.
2. ISO 6579- Microbiology of food and animal feeding stuffs – Horizontal method for the detection of *Salmonella spp*. 2002-07-15.
3. O.M. 11/10/78: Limiti di cariche microbiche tollerabili in determinate sostanze alimentari e bevande. Gazzetta Ufficiale della Repubblica Italiana, n°346 del 13/12/78.



LIOFILCHEM s.r.l.

Via Scozia Zona Ind.le - 64026 Roseto D.A. (TE) - Italy

Tel. +390858930745 Fax +390858930330 Website: www.liofilchem.net E-Mail:

lioilchem@lioilchem.net



PRODUCT SPECIFICATIONS

NAME

BUFFERED PEPTONE WATER II

PRESENTATION

Dehydrated culture medium

STORAGE

10-30°C

PACKAGING

Code	Content	Packaging
610619	500 g	500 g of powder in plastic bottle
620619	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM

7.0 ± 0.2

USE

BUFFERED PEPTONE WATER II is recommended by ISO 6579 as a non selective medium for the pre-enrichment phase in the procedure of *Salmonellae* isolation from foods and water to increase recovery.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE OF THE MEDIUM

Light amber medium, clear with no significant precipitate.

SHELF LIFE






4 years

QUALITY CONTROL

- Control of general characteristics, label and print.
- Microbiological control:
Inoculum for productivity: 10-100 UFC/ml.
Inoculum for selectivity: 10⁴-10⁵ UFC/ml.
Inoculum for specificity: ≤ 10⁴ UFC/ml.
Incubation conditions: 18-48 h at 36 ± 1°C.

Microorganism		Growth
<i>Salmonella typhi</i>	ATCC 19430	Good
<i>Salmonella typhimurium</i>	ATCC 14028	Good
<i>Salmonella enteritidis</i>	ATCC 13076	Good

TABLE OF SYMBOLS

LOT Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests
REF Catalogue number	 Temperature limitation	 Use by	



LIOFILCHEM s.r.l.

Via Scozia Zona Ind.le - 64026 Roseto D.A. (TE) - Italy

Tel. +390858930745 Fax +390858930330 Website: www.liofilchem.net E-Mail: liofilchem@liofilchem.net