

## BPW SHOE COVER

### Presentation

Wired sampling bag containing 1, 2 or 4 shoe covers dampened with sterile BPW.

### Sterilization method

Gamma irradiation.

### Application

Used as a dragging swab for environmental monitoring, especially for collecting samples for the detection of *Salmonella* spp. The presence of Buffered Peptone Water (BPW) ensures non-selective pre-enrichment of microorganisms present in the collected samples, keeps the cells viable and promotes the recovery of injured cells until the laboratory analysis.

### Principle

Non-selective enriched medium that allows the growth of various microorganisms, particularly members of pathogenic Enterobacteria such as *Salmonella*. It promotes the recovery of injured cells by incubating the sample under non-selective conditions for at least 18 hours.

### How to use

Open the sampling bag, put on the shoe covers without touching its surface, and walk over the desired area according to the adopted sampling plan. Upon completing the collection, carefully remove the shoe covers, return them to the sampling bag, and close the bag. Send the samples to the laboratory as soon as possible, maintaining a temperature of 2-8°C. Proceed with the analysis according to the methodology adopted by the laboratory.

### Quality Control

Test	Result
Sterility	Absence of microbial growth
<i>Salmonella enterica</i> ATCC 14028	Good growth after subculturing on non-selective agar
<i>Escherichia coli</i> ATCC 25922	Good growth after subculturing on non-selective agar
Appearance	Shoe cover: white, free from dirt. Medium: liquid medium, light yellow to very clear, clear, may contain slight precipitate.
pH at 25°C	7.0 ± 0.2

### Results interpretation

Microbial growth is evidenced by the turbidity of the medium. If growth is observed, perform microscopic analysis, subculture on selective media, and biochemical tests to identify isolated genera and species, if necessary. Perform the reading according to official compendia or internal laboratory methodology.

### Precautions and special care

Product intended for *in vitro* diagnostic use only.

Restricted for use by professionals. Do not inhale or ingest.

Do not use the product beyond the expiration date, with signs of contamination, or if it has changed color. In the presence of contamination, the product should be immediately discarded.

Do not use the product if the packaging is damaged or tampered with.

### Storage

Store between 2-35°C in a dry place and protect from light.

### Shelf-life

1 year from the date of manufacture.

### Disposal of the product

After use, the product must be handled at the generating unit before environmentally appropriate final disposal, in accordance with official regulations.

### Quality Guarantee

bioBoaVista guarantees the quality of its products as long as they are used according to their respective instructions and in accordance with national and international references. bioBoaVista does not take responsibility for the use of its products for purposes other than those described and approved by the company. All clinical diagnoses should be analyzed in conjunction with clinical evidence and not solely based on laboratory results.

### References

- Becton, Dickinson and Company. Difco & BBL Manual. Manual of Microbiological Culture Media, 2nd ed., 2009.
- ISO 6579-1:2017. Microbiology of food chain – Horizontal method for the detection, enumeration and serotyping of *Salmonella*. Part 1: Detection of *Salmonella* spp.
- ISO 11133:2014. Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media.
- Manual de Métodos de Análise Microbiológica de Alimentos, Livraria Varela, 3ª ed., 2007.
- Merck Microbiology Manual. 12th ed.
- Ministério da Agricultura, Pecuária e Abastecimento. Instrução Normativa nº 20, de 21 de outubro de 2016. Estabelece o controle e o monitoramento de *Salmonella* spp. nos estabelecimentos avícolas comerciais de frangos e perus de corte e nos estabelecimentos de abate de frangos, galinhas, perus de corte e reprodução. Diário Oficial da União. Brasília de 25 out. 2016. Seção 1, p.13.