

**BPW****Presentation**

Tube with 9ml, 10ml, or 15ml.

Flask with 90ml, 99ml, 100ml, 225ml, 250ml, or 500ml.

**Sterilization method**

Gamma irradiation.

**Application**

BPW (Buffered Peptone Water) is a culture medium used in the pre-enrichment of samples for the research of *Salmonella* spp in foods and other products.

**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**

Inoculate the sample according to the methodology used by the laboratory. Incubate for 18-24 hours at 35±2°C.

**Quality Control**

Test	Result
Sterility	Absence of microbial growth
<i>Salmonella enterica</i> ATCC 14028	Good growth with turbidity of the medium
<i>Escherichia coli</i> ATCC 25922	Good growth with turbidity of the medium
Appearance	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**

1. Becton, Dickinson and Company. Difco & BBL Manual. Manual of Microbiological Culture Media, 2nd ed., 2009.
2. ISO 6579-1:2017. Microbiology of food chain – Horizontal method for the detection, enumeration and serotyping of *Salmonella*. Part 1: Detection of *Salmonella* spp.
3. ISO 11133:2014. Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media.
4. Manual de Métodos de Análise Microbiológica de Alimentos, Livraria Varela, 3ª ed., 2007.
5. Merck Microbiology Manual. 12th ed.