Reference: 5171 **Technical Data Sheet**

Product: **BUFFERED PEPTONE WATER ISO 6579, ISO 22964, ISO 6887, ISO 19250, DIN 10181, 10160,**

Specification

Diluent and non-selective pre-enrichment broth for the homogenization of food samples formulated according to ISO 6579, ISO 8523 and ISO 6785.

Presentation

	Packaging Details	Shelf Life	Storage
10 Prepared bottle Bottle 125 ml total capacity with: 90 ± 3 ml	1 box with 10 bottles 125 ml. Injectable cap: Plastic screw inner cap + elastomer septum + protective outter cap.	16 months	8-25ºC

Composition

Composition (g/l):

Casein peptone..... 10.0
Sodium chloride.....5.0
Disodium phosphate12 H_2O..... 9.0
Potassium phosphate..... 1.5

Description /Technique

Description:

This formulation of Buffered Peptone Water has the advantages of the two classical diluents used for food samples: it has the property of revitalization of the peptone water and the pH change absorbing capacity of the phosphate buffer.
The composition of this diluent is made according to the specification of the ISO Standard 6579 for the detection of Salmonella in foods and other ISO Standards (6785, 6887 and 8261).

Tecnique:

Use the medium according to intended purposes, samples and validated methods.

Quality control

Physical/Chemical control

Color : yellow pH: 7 ± 0.2 at 25ºC

Microbiological control

Prepare tubes / Inoculate 10^3- 10^4 (Productividad)/ subculture to T0, 45 minutes, 1h at 20-25ºC;
Microbiological control according to ISO 11133:2014

Aerobiosis. Incubation at 35 ± 2ºC. Reading at 24 hours.

Microorganism	Growth
Staphylococcus aureus ATCC® 25923	Good. Recovery ±30% T0 (original enumeration)
Escherichia coli ATCC® 25922	Good. Recovery ±30% T0 (original enumeration)
Escherichia coli ATCC® 8739	Good
Salmonella typhimurium ATCC® 14028	Good
Salmonella enterica ATCC® 13076	Good

Sterility Control

Incubation 48 hours at 30-35ºC and 48 hours at 20-25ºC: NO GROWTH
Check at 7 days after incubation in same conditions

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Bibliography

· ATLAS, R.M. & L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press, Inc. London.
. ISO 11133:2014. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
· ISO 6579 (2002) Microbiology and animal feeding stuffs. Horizontal methods for the detection of *Salmonella spp.*
· ISO 6785 (2001) Milk and milk products. Detection of *Salmonella spp.*
· ISO 6887-1 (1999) Microbiology of food and animal feeding stuffs - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination. Part 1: General rules for the preparation of the initial suspension and decimal dilutions.
· ISO 6887-2 (2003) Microbiology of food and animal feeding stuffs - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination. Part 2: Specific rules for the preparation of meat and meat products.
· ISO 6887-3 (2003) Microbiology of food and animal feeding stuffs - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination. Part 3: Specific rules for the preparation of fish and fishery products.
· ISO 6887-4 (2003) Microbiology of food and animal feeding stuffs - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination. Part 4: Specific rules for the preparation of products other than milk and milk products, meat and meat products and fish and fishery products.
· ISO/DIS 6887-5 (2009) Microbiology of food and animal feeding stuffs - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination. Part 5: Specific rules for the preparation of milk and milk products.
· ISO 8261 (2001) Milk and milk products. General guidance for the preparation of test samples for microbiological examination.
· ISO 21528-1:2004 Standard. Microbiology of food and animal feeding stuffs - Horizontal methods for the detection and enumeration of Enterobacteriaceae - Part 1: Detection and enumeration by MPN technique with pre-enrichment.
· ISO/TS 22964 (2006) Milk and milk products.- Detection of *Enterobacter sakazakii*
· PASCUAL ANDERSON, Mª R. (1992) Microbiología Alimentaria. Díaz de Santos, S.A. Madrid.
. UNE-EN ISO 11133 (2014). Microbiología de los alimentos para consumo humano, alimentación animal y agua.-Preparación, producción, conservación y ensayos de rendimiento de los medios de cultivo.

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