

Specification

Dilution and non-selective pre-enrichment liquid medium according to ISO standards.

Presentation

	Packaging Details	Shelf Life	Storage
2 Prepared Bags Bags 5L with: 5000 ± 15 ml	1 box with 2 bags of 5L. PVC plasticizer free sterile bag with: 1 vial stopper + 1 penetrable cap. Dimensions: 27 x 40 cm. For use in food testing.	16 months	8-25°C

Composition

Composition (g/l)	
Peptone.....	10.0
Sodium chloride.....	5.00
Disodium phosphate.....	9.00
Potassium phosphate.....	1.50

Description /Technique

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, 8261).

Inoculate according to final purpose, samples and validated methods.

Each Bag is intended for use with an automatic dispenser in laboratories requiring large volumes of broth media or diluent.

Discard any partially used bag to avoid contamination.

The bag has multiple connection points: 1 penetrable cap (injection port) latex-free polycarbonate, for any additive injection required. And an injection (vial stopper) to connect to any standard equipment laboratory dosing with a connector.

Once completely empty, the bag can be disposed of along with normal plastic (PVC).

Quality control

Physical/Chemical control

Color : yellow

pH: 7 ± 0.2 at 25°C

Microbiological control

Prepare tubes / Inoculate 10³- 10⁴ (Productividad)/ subculture to T0, 45 minutes, 1h at 20-25°C;

Microbiological control according to ISO 11133:2014

Aerobiosis. Incubation at 35 ± 2°C. Reading at 24 hours.

Microorganism

Staphylococcus aureus ATCC® 25923

Escherichia coli ATCC® 25922

Escherichia coli ATCC® 8739

Salmonella typhimurium ATCC® 14028

Salmonella enterica ATCC® 13076

Growth

Good. Recovery ±30% T0 (original enumeration)

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Good

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Sterility Control

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

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 of food 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, M^a 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.