OXFORD LAB FINE CHEM LLP
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TECHNICAL DATA SHEET

Buffered Peptone Water
(ISO 6579-1:2017, 11133:2014, 11290-2:2017, 21528:2017, 6887-1/2/3/4:2017)

Principle

Buffered peptone water is composed of peptone, sodium chloride, disodium hydrogen phosphate, anhydrous and monobasic potassium phosphate. Peptone, serves the source of nitrogen, carbon and other growth factors. Disodium hydrogen phosphate, anhydrous and monobasic potassium phosphate acts as buffering agents and sodium chloride maintains the osmotic balance. Buffered peptone water is designed to help recovery of the sub-healthy or damaged *Salmonella* from processed food samples before transferring to selective medium. Buffered peptone water has shown higher recovery of *Salmonella* than that of the Lactose broth.

Use: For pre-enrichment of injured Salmonella species prior to selective enrichment & isolation.

Contents*

Ingredients	Gram/Liter
Peptone	10.000
Sodium Chloride	5.000
Disodium hydrogen phosphate, anhydrous	3.570
Potassium dihydrogen phosphate	1.500
pH at 25˚C	7.0±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 20.07 grams in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 min, and inoculate test sample aseptically.

Specimens' types analyzed

Water samples, food and food products, dairy, and animal feed etc.

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Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	**Cream to light tan colored free flowing, homogeneous powder**
Reaction of 2.07% solution	**7.0±0.2 at 25˚C**
pH	**6.80 - 7.20**
Color and clarity of ready medium	**Light amber, clear solution**
Growth Promotion properties	**Best at ≤ 100 CFU at 37±1°C for 18-48 hours**
Indicative properties	**Optimum at ≤ 100 CFU at 37±1°C for 18-24 hours**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Cultural characteristics observed after incubation at 37±1°C for 18±2 hours.

Organism	ATCC	Inoculum (CFU)	Growth
Salmonella typhimurium	**14028**	**50-100**	**Luxuriant**
Salmonella enteritidis	**13076**	**50-100**	**Luxuriant**
Salmonella abony	**NCTC-6017**	**50-100**	**Luxuriant**
Salmonella paratyphi A	**9150**	**50-100**	**Luxuriant**
Escherichia coli	**25922**	**50-100**	**Luxuriant**
Escherichia coli	**8739**	**50-100**	**Luxuriant**

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Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. **Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.**
2. **Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**
3. **International Organization for Standardization 6579-1:2017(E), Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella.**
4. **Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.**

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