OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Buffered Peptone Water

Principle

Buffered peptone water is composed of peptone, sodium chloride, sodium phosphate dibasic and monobasic potassium phosphate. Peptone, serves the source of nitrogen, carbon and other growth factors. Dibasic sodium phosphate 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: Recommended for enrichment of *Salmonella* from the pharmaceutical samples, water samples, food, dairy, animal feed and meat samples etc.

Contents*

Ingredients	Gram/Litre
Peptone	10.000
Sodium Chloride	5.000
Dibasic Sodium Phosphate	3.500
Monobasic Potassium Phosphate	1.500
pH at 25°C	7.2 ±0.2

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

Directions: Dissolve 20.00 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

Pharmaceutical samples, clinical and non-clinical samples such as water samples, food, dairy, animal feed and meat samples etc.

OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Oxford
Range of
Laboratory Chemicals

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 2.0% solution	**7.2±0.2 at 25 ˚C**
pH	**7.00- 7.40**
Color and clarity of ready medium	**Light amber, clear solution**
Growth Promotion properties	**Best at ≤ 100 CFU at 32-37 ºC for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response
Cultural characteristics observed after an incubation at 35 ± 2°C for 18-48 hours

Organism	Inoculum	Growth	Recovery	Incubation Temperature	Incubation period
Salmonella typhimurium (ATCC 14028)	**50-100**	**Luxurious**	**60-70%**	**33-37 ºC**	**18-48 h**
Escherichia coli (ATCC 8739)	**50-100**	**Luxurious**	**60-70%**	**33-37 ºC**	**18-48 h**

*** Recovery on Tryptone soy agar**

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Storage and Shelf Life: Hygroscopic; keep container tightly closed. Store in cool dry place.

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. **Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), *Standard methods for the examination of water and wastewater*. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.**
4. **APHA Inc., *Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed.*, Washington, D.C.**

Disclaimer:

****

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.
Oxford Lab Fine Chem LLP makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Oxford Lab Fine Chem LLP will not be responsible for damages resulting from use of or reliance upon this information.