



Butterfield's Phosphate Buffered Dilution Water

R094

Intended use

Butterfield's Phosphate Buffered Dilution Water is used for preparation of microbiological dilution blanks.

Composition**

Ingredients	-
Potassium dihydrogen phosphate	34.0 gm
Distilled water	1,000.0 ml
pH 7.2	

**Formula adjusted, standardized to suit performance parameters

Directions

Dilution blanks

Take 1.25 ml of the buffer, make up the volume to 1000 ml with sterile distilled water. Distribute 90 ml/ 99.5 ml in sterile bottles for further dilutions as desired. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes.

Final 90ml Butterfield's phosphate buffered dilution water will contain 0.003825gm Potassium dihydrogen phosphate

Principle And Interpretation

Butterfield's phosphate buffered dilution water, pH 7.2 is specified by the FDA BAM for use in diluting test samples.(1) It is specified for use in diluting water, dairy products and food for microbiological methods. This buffer is also referred to as Phosphate Buffer pH 7.2. It stabilizes the pH of water used for dilutions.

Type of specimen

Food & dairy samples

Specimen Collection and Handling

For food and dairy samples, follow appropriate techniques for sample collection and processing as per guidelines.(1,2,3)

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations

1.The pH of water needs to be monitored for preparation of blanks.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

Quality Control

- **Appearance** : Colourless solution.
- **Clarity** : Clear with no insoluble particles.
- **Reaction** : Reaction of the solution at 25°C pH 7.2

Storage and Shelf Life

On receipt store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (4,5).

Reference

1. Bacteriological Analytical Manual, 8th Edition, Revision A, 1998.
2. Salfinger., and Tortorello M.L., 2015, Compendium of Methods for the Microbiological Examination of, Foods, 5th Ed., American Public Health Association, Washington, D.C.
3. Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.
4. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
5. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.



Storage temperature



Do not use if package is damaged



HiMedia Laboratories Pvt Limited
C-40,21/Y, MIDC, Wagle Ind Area,
Thane(W)-400604, Maharashtra, India

Revision : 02/2023

Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.