



## 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 | 34.00 gm   |
| Distilled Water                | 1000.00 ml |

pH 7.2

\*\*Formula adjusted, standardized to suit performance parameters

Final 90ml Butterfield's phosphate buffered dilution water will contain 0.0003825gm Potassium dihydrogen phosphate .

### Principle And Interpretation

Butterfield's phosphate buffered dilution water, pH 7.2 is specified by the American Public Health association (APHA) for use in diluting test samples. 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 (1).

### Warning and Precautions

In Vitro diagnostic use only. 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 clinical specimens. Safety guidelines may be referred in individual safety data sheets.

### Performance and Evaluation

Performance of the product 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 clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (2,3).

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## Reference

- 1) Bacteriological Analytical Manual, 8th Edition, Revision A, 1998.
- 2) Lapage S., Shelton J. and Mitchell T., 1970, Methods in Microbiology', Norris J. and Ribbons D., (Eds.), Vol. 3A, Academic Press, London.
- 3) MacFaddin J. F., 2000, Biochemical Tests for Identification of Medical Bacteria, 3rd Ed., Lippincott, Williams and Wilkins, Baltimore.

Revision : 01 / 2019

### Disclaimer :

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