

# Phosphate Buffer, pH 7.2

## Intended Use

Phosphate Buffer, pH 7.2 is used for the preparation of dilution blanks for use in the examination of waters, dairy products, foods and other materials.

Meets *United States Pharmacopoeia (USP)*, *European Pharmacopoeia (EP)* and *Japanese Pharmacopoeia (JP)*<sup>1-3</sup> performance specifications, where applicable.

## User Quality Control

### Identity Specifications

#### BBL™ Phosphate Buffer, pH 7.2

Dehydrated Appearance: White, fine, homogeneous, free of extraneous material.

Solution: 3.4% solution, soluble in purified water. Solution is colorless, clear to trace hazy.

Prepared Appearance: Colorless, clear to trace hazy.

Stock Solution at 25°C: pH 7.2 ± 0.5

#### BBL™ Phosphate Buffer, pH 7.2 (prepared)

Appearance: Colorless to light yellow and clear to trace hazy.

Reaction at 25°C: pH 7.2 ± 0.1

### Survival Test

#### BBL™ Phosphate Buffer, pH 7.2 (prepared, 500 mL bottle, Working Solution)

Perform a 10-minute survival test on the buffer using appropriate dilutions of organisms. In a sterile Petri dish, combine 1 mL of organism dilution with 20 mL of autoclaved and cooled (45-50°C) Standard Methods Agar or Tryptic Soy Agar. Incubate at 35 ± 2°C for up to 3 days.

ORGANISM	APCC <sup>4</sup>	INOCULUM CFU	RECOVERY AT 10 MINUTES
<i>Bacillus cereus</i>	11778	30-300	≥85% of time zero counts
<i>Candida albicans</i>	10231	30-300	≥85% of time zero counts

#### BBL™ Phosphate Buffer, pH 7.2 (prepared, 100 mL bottle, Stock Solution)

Perform a 10-minute survival test on a 1:800 dilution of the stock solution using appropriate dilutions of organisms and the membrane filtration test. Incubate organisms for up to 5 days at 30-35°C. Incubate *A. brasiliensis* and *C. albicans* at 20-25°C for up to 5 days.

ORGANISM	APCC <sup>4</sup>	INOCULUM CFU	RECOVERY AT 10 MINUTES
<i>Aspergillus brasiliensis</i> (spore)	16404	10-100	>80% of time zero counts
<i>Bacillus subtilis</i>	6633	10-100	>80% of time zero counts
<i>Candida albicans</i>	10231	10-100	>80% of time zero counts
<i>Escherichia coli</i>	8739	10-100	>80% of time zero counts
<i>Pseudomonas aeruginosa</i>	9037	10-100	>80% of time zero counts
<i>Salmonella Albany</i> DSM 4224		10-100	>80% of time zero counts
<i>Staphylococcus aureus</i>	6538	10-100	>80% of time zero counts

## Summary and Explanation

The formula for phosphate buffer was originally specified by the American Public Health Association (APHA) for use in diluting test samples. Phosphate Buffer, pH 7.2 still is specified for use in diluting water samples,<sup>4</sup> dairy products<sup>1</sup> and foods<sup>2,5</sup> in standard microbiological methods. In some compendial methods,<sup>6,7</sup> this product is referred to as Butterfield's Phosphate Buffered Dilution Water. Some methods<sup>8</sup> require the addition of 5.0 mL of a magnesium chloride solution (81.1 g MgCl<sub>2</sub> • 6H<sub>2</sub>O per L of purified water) to the product. General chapters <61> and <62> of the USP recommend the use of Phosphate Buffer, pH 7.2 for preparing dilutions of nonsterile pharmaceutical products when performing Microbial Enumeration Tests and Tests for Specified Microorganisms.<sup>1</sup>

## Principles of the Procedure

Phosphate buffer is used in the preparation of dilution blanks for use in microbiological testing rather than unbuffered water in order to standardize this potential variable due to the wide variation in the pH of purified water from multiple sources. Sodium carbonate is a pH regulator.

## Formula

### BBL™ Phosphate Buffer, pH 7.2

Approximate Formula* Per Liter	
Potassium Dihydrogen Phosphate	26.22 g
Sodium Carbonate	7.78 g

\*Adjusted and/or supplemented as required to meet performance criteria.

## Directions for Preparation from Dehydrated Product

1. Prepare a stock solution, according to standard procedure, by dissolving 34.0 g in purified water and make up to 1 L.
2. Dispense and sterilize, if desired. Store under refrigeration.
3. Prepare a working solution for use in dilution blanks, according to standard procedure, by adding 1.25 mL of stock solution to purified water<sup>4</sup> and make up to 1 L (1:800).
4. Dispense in bottles or tubes to provide a post-autoclaving volume of 99 ± 2 mL or 9 ± 0.2 mL or other appropriate quantity.
5. Autoclave at 121°C for 15 minutes.

\*NOTE: If desired, add 5.0 mL of magnesium chloride solution (81.1 g MgCl<sub>2</sub> • 6 H<sub>2</sub>O per L of purified water).

## Sample Collection and Handling

For water, dairy and food samples, follow appropriate standard methods for details on sample collection and preparation according to sample type and geographic location.<sup>4,9</sup>

For pharmaceutical samples, refer to the USP for details on sample collection and preparation for testing of nonsterile products.<sup>1</sup>

# Phosphate Buffer Ph 7 Becton Dickinson

**M Carnoy**



**Phosphate Buffer Ph 7 Becton Dickinson:**

The Top Books of the Year Phosphate Buffer Ph 7 Becton Dickinson The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Phosphate Buffer Ph 7 Becton Dickinson : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Phosphate Buffer Ph 7 Becton Dickinson : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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**Table of Contents Phosphate Buffer Ph 7 Becton Dickinson**

1. Understanding the eBook Phosphate Buffer Ph 7 Becton Dickinson
  - The Rise of Digital Reading Phosphate Buffer Ph 7 Becton Dickinson
  - Advantages of eBooks Over Traditional Books
2. Identifying Phosphate Buffer Ph 7 Becton Dickinson
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Phosphate Buffer Ph 7 Becton Dickinson
  - User-Friendly Interface
4. Exploring eBook Recommendations from Phosphate Buffer Ph 7 Becton Dickinson
  - Personalized Recommendations
  - Phosphate Buffer Ph 7 Becton Dickinson User Reviews and Ratings
  - Phosphate Buffer Ph 7 Becton Dickinson and Bestseller Lists
5. Accessing Phosphate Buffer Ph 7 Becton Dickinson Free and Paid eBooks
  - Phosphate Buffer Ph 7 Becton Dickinson Public Domain eBooks
  - Phosphate Buffer Ph 7 Becton Dickinson eBook Subscription Services
  - Phosphate Buffer Ph 7 Becton Dickinson Budget-Friendly Options
6. Navigating Phosphate Buffer Ph 7 Becton Dickinson eBook Formats
  - ePub, PDF, MOBI, and More
  - Phosphate Buffer Ph 7 Becton Dickinson Compatibility with Devices
  - Phosphate Buffer Ph 7 Becton Dickinson Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Phosphate Buffer Ph 7 Becton Dickinson
  - Highlighting and Note-Taking Phosphate Buffer Ph 7 Becton Dickinson
  - Interactive Elements Phosphate Buffer Ph 7 Becton Dickinson
8. Staying Engaged with Phosphate Buffer Ph 7 Becton Dickinson

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Phosphate Buffer Ph 7 Becton Dickinson
- 9. Balancing eBooks and Physical Books Phosphate Buffer Ph 7 Becton Dickinson
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Phosphate Buffer Ph 7 Becton Dickinson
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Phosphate Buffer Ph 7 Becton Dickinson
  - Setting Reading Goals Phosphate Buffer Ph 7 Becton Dickinson
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Phosphate Buffer Ph 7 Becton Dickinson
  - Fact-Checking eBook Content of Phosphate Buffer Ph 7 Becton Dickinson
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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