

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)*¹⁻³ 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 ⁴	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 ⁴	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,⁴ dairy products¹ and foods^{2,5} in standard microbiological methods. In some compendial methods,^{6,7} this product is referred to as Butterfield's Phosphate Buffered Dilution Water. Some methods⁸ require the addition of 5.0 mL of a magnesium chloride solution (81.1 g MgCl₂ • 6H₂O 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.¹

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 water⁴ 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 MgCl₂ • 6 H₂O 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.^{4,9}

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

Phosphate Buffer Ph 7 Becton Dickinson

**John P.M. Finberg, Moussa B.H.
Youdim, Peter Riederer, K.F. Tipton**



Phosphate Buffer Ph 7 Becton Dickinson:

Recombinant Antibodies for Cancer Therapy Martin Welschof, Jürgen Krauss, 2008-02-05 Since the advent of hybridoma technology more than two decades ago numerous antibodies have entered the clinical setting as potent therapeutic agents Their repeated application in humans however is limited by the development of human antimouse antibodies HAMA in the recipient leading to allergic reactions against the foreign murine protein and rapid neutralization To circumvent these limitations many new antibodies have recently been tailored through recombinant antibody technology The initial clinical data show encouraging results thus demonstrating the potential of these new therapeutic agents The purpose of Recombinant Antibodies for Cancer Therapy is to present a collection of detailed protocols in recombinant antibody technology It is primarily addressed to scientists working on recombinant antibodies as well as clinicians involved with antibody based therapies As with other volumes of this series we placed the main focus on providing detailed protocols describing procedures step by step Moreover each protocol supplies a troubleshooting guide containing detailed information on possible problems and hints for potential solutions Antibody technology is a subject of constant and rapid change This volume therefore does not attempt to cover all possible current experimental approaches in the field Rather we present carefully selected protocols written by competent authors who have successfully verified the particular method described Given our own professional backgrounds and interest in oncology we chose to concentrate chiefly on therapeutic agents for cancer patients

Methods in Cyanobacterial Research Shailendra Pratap Singh, Rajeshwar P. Sinha, Donat-P. Häder, 2024-06-14 This laboratory reference compiles the essential protocols used in cyanobacterial research Cyanobacteria is a model system for biofuel production and sequestration of carbon dioxide to tackle global climate change due to increasing levels of greenhouse gases Topics range from identification and growth parameters to biomolecule estimation and isolation It also covers genome analysis and bioengineering of cyanobacteria for novel products Key Features Provides step by step procedures and troubleshooting tips Covers identification growth parameters and pigment estimation methodologies Describes isolation characterization and purification of microcystin phycobiliproteins and scytonemin from cyanobacteria Discusses genomics proteomics and bioengineering of cyanobacteria from novel products Explains sample preparation and visualization protocol for electron microscopy based analysis of cyanobacteria This collection is useful to students and researchers in life sciences It is also meant for industry experts who are involved in the production of biofuels biofertilizers other value added products and carbon sequestration using cyanobacteria

High Pressure Food Science, Bioscience and Chemistry N S Isaacs, 1998-01-01 The application of high pressures to serve scientific ends is an ever growing area of research With sections on chemistry food science biochemistry and physics this book contains a variety of original work Polyamine Protocols David M. L. Morgan, 2008-02-02 A unique collection of hands on enzyme assay techniques to study polyamines and their function The techniques range from assay methods for enzymes of polyamine biosynthesis and catabolism to measurements

of polyamines polyamine transport and polyamine effects on cell growth The methods are presented by leading researchers who have perfected them to a high art and include clear step by step instructions with numerous hints and tips to ensure readily reproducible results Laboratory Information Bulletin ,2002 **Antibiotic Resistance Methods and Protocols** Stephen H. Gillespie,2008-02-01 At a time of rising concern about drug resistance and falling output of new antibacterial compounds antibiotic research has once again returned to the forefront of medical science In Antibiotic Resistance Methods and Protocols Stephen Gillespie and a panel of leading clinical and diagnostic microbiologists describe a series of detailed molecular and physical methods designed to study the growing problem of antibiotic resistance as well as facilitate new antibiotic research programs for its effective redress The techniques range widely from those that provide rapid diagnosis via DNA amplification and phage display to those for plotting the transmission of resistant organisms and investigating their epidemiology The methods are readily adaptable to a wide range of resistant bacterial organisms In order to ensure successful results each method is described in minute detail and includes tips on avoiding pitfalls Practical and wide ranging Antibiotic Resistance Methods and Protocols provides a collection of indispensable techniques not only for illuminating the basic biology of antimicrobial resistance but also for developing and implementing new diagnostic and epidemiological tools Current Laboratory Techniques in Rabies Diagnosis, Research and Prevention, Volume 1 Charles Rupprecht,Thirumeni Nagarajan,2014-07-30 Laboratory Techniques in Rabies Diagnosis Research and Prevention provides a basic understanding of the current trends in rabies It establishes a new facility for rabies surveillance vaccine and antibody manufacturing It offers clarity about the choice of laboratory methods for diagnosis and virus typing of systems for producing monoclonal and polyclonal antibodies and of methods for testing potency of vaccines and antibodies The book covers advancements in the classical methods described as well as recent methods and approaches pertaining to rabies diagnosis and research Supplies techniques pertaining to rabies diagnosis and research Provides an update on the conventional and modern vaccines for rabies prevention Offers updates on the full length antibodies and antibody fragments for post exposure prophylaxis of rabies Presents technique descriptions that can be used to be compared to industry protocols to identify and establish potential new techniques Biologically Modified Polymeric Biomaterial Surfaces E. Piskin,2012-12-06 gap always exists between the material performance generation of new molecules along with the release during in vivo animal tests and clinical situations of substances from a multitude of cells The plasma because of the difference in individual reactions proteins including coagulation and complement proteins the blood cells deposited on the material between one animal and another and humans Likewise sophisticated in vitro and in vivo models surface or circulating in the blood stream and their are being developed to study living body responses released substances take part in the dynamic process of fibrinolysis and thrombus formation Progress has been achieved in culturing mammalian cells particularly human cells which has lead to new in vitro models to study cell biomaterial Tissue response interactions These techniques are discussed in the other chapters of this volume

Materials implanted in tissues always generate a response The major tissue response in the extra BIOLOGICAL MODIFICATION vascular system is an inflammatory process which may be induced chemically or physically Many Surfaces of polymeric biomaterials may be modified proteins and cells are involved in this very complex by using a variety of biological entities e g *Animal Cell Technology: Basic & Applied Aspects* T. Kobayashi,Y. Kitagawa,K. Okumura,2012-12-06 Animal cell technology is a growing discipline of cell biology which aims to understand the structure function and behaviour of differentiated animal cells and especially the development of such abilities as are useful for industrial purposes These developments range from clonal expansion of differentiated cells with useful abilities to optimization of cell culture on industrial scale and modulation of the cells abilities to produce drugs and monoclonal antibodies The sixth volume in this series gives a complete review of today s state of the art in Japan a country where this field is especially well advanced It will be of interest to cell biologists biochemists molecular biologists immunologists and other disciplines related to animal cell culture working in the academic environment as well as in biotechnology or pharmaceutical industry Vaccine Design Sunil Thomas,2021-12-16 This volume provides a practical guide providing step by step protocol to design and develop vaccines for human diseases Divided into three volumes Volume 1 Vaccines for Human Diseases guides readers through an introductory section on future challenges for vaccinologists and the immunological mechanism of vaccines Chapters focus on design of human vaccines for viral bacterial fungal and parasitic diseases as well as tumor vaccines Written in the format of the highly successful *Methods in Molecular Biology* series each chapter includes an introduction to the topic lists necessary materials and reagents includes tips on troubleshooting and known pitfalls and step by step readily reproducible protocols Authoritative and practical *Vaccine Design Methods and Protocols* Second Edition Volume 1 Vaccines for Human Diseases aims to be a useful practical guide to researchers to help further their study in this field **Epidermal Cells** Kursad Turksen,2008-02-03 A collection of cutting edge methods to analyze and manipulate epidermal cellprecursors and mature epidermal cells These protocols cover different methods and models for culturing epidermal cells for enriching very early epidermal progenitors and for studying epidermal cell commitment and differentiation both in vitro and in vivo Topics of special interest include the derivation characterization and utility of epidermal stem cells mature epidermal cells and their characterization and applications in regenerative medicine These readily reproducible techniques broaden our understanding of the biology of epidermal cells and of their utility in normal tissue homeostasis and regenerative medicine applications Biomedical Application of Nanoparticles Bertrand Henri Rihn,2017-09-05 Biomedical Application of Nanoparticles explores nanoparticles their chemical and physicals properties and how they interact in biological systems with proteins immune system and targeted cells Risk assessment of nanoparticles for human is described including cellular paradigms transcriptomics and toxicogenomics Finally the applications of nanoparticles in medicine and antioxidant regenerative therapeutics are presented in several chapters with emphasis on how nanoparticles enhance transport of drugs across

biological membrane barriers and therefore may enhance drug bioavailability

Chromatography and Its Applications
 Sasikumar Dhanarasu, 2012-03-16 Chromatography is a powerful separation tool that is used in all branches of science and is often the only means of separating components from complex mixtures The Russian botanist Mikhail Tswett coined the term chromatography in 1906 The first analytical use of chromatography was described by James and Martin in 1952 for the use of gas chromatography for the analysis of fatty acid mixtures A wide range of chromatographic procedures makes use of differences in size binding affinities charge and other properties Many types of chromatography have been developed These include Column chromatography High performance liquid chromatography HPLC Gas chromatography Size exclusion chromatography Ion exchange chromatography etc In this book contains more details about the applications of chromatography by various research findings Each and every topics of this book have included lists of references at the end to provide students and researchers with starting points for independent chromatography explorations I welcome comments criticisms and suggestions from students faculty and researchers

Morphogens in the Wiring of the Nervous System Juan Pablo Henríquez, Nelson Osses, 2024-04-11 Neuronal function relies on the establishment of proper connections between neurons and their target cells during development This basic statement involves several cellular processes such as neuronal differentiation the polarized outgrowth of axons and dendrites from differentiated neurons and the pathfinding of axons towards target cells The subsequent recognition of complementary synaptic partners finally triggers the formation maturation and maintenance of functional synapses Morphogens are secreted signaling molecules that regulate tissue patterning and cell identity during early embryonic development Remarkably growing evidence over the last years arising from different invertebrate and vertebrate model organisms has shown that after cell fate has been established morphogens also control the precise wiring of the nervous system

The Journal of Cell Biology, 1998 No 2 pt 2 of November issue each year from v 19 47 1963 70 and v 55 1972 contain the Abstracts of papers presented at the annual meeting of the American Society for Cell Biology 3d 10th 1963 70 and 12th 1972

Advancement in Equine Pain Management
 Ludovica Chiavaccini, Rachel Anne Reed , Claudia Spadavecchia, 2025-02-17 Despite recent improvements in the perception of equine pain and welfare the recognition and treatment of pain in horses still lag behind their small animal counterpart While most clinicians strongly advocate preventing and alleviating pain it is still debated whether a little discomfort may reduce the risk that the animal will overuse an injured body part especially in prey animals like horses In addition the reluctance to use systemic full mu opioid receptor agonists still exists due to the concern that opioids may cause excitation the fear that opioid receptor agonists may decrease gastrointestinal motility and the conflicting data on the analgesic efficacy of full mu opioids in horses with naturally occurring diseases Therefore this special issue will revolve around recent advancements in equine pain understanding recognition and management Authors are encouraged to submit papers in the areas of recognizing preventing modulating and managing acute and chronic pain in horses We also encourage submissions

focusing on pain mechanisms such as mechanistic studies ex vivo or preliminary work involving tissues or biological samples from well phenotyped horses Finally we note significant advancements in the development of therapeutic platforms viral transfection modalities or targeted neurotoxins that have been documented on other species and suggest relevance to the equine patient

MAO - The Mother of all Amine Oxidases John P.M. Finberg, Moussa B.H. Youdim, Peter Riederer, K.F. Tipton, 2013-12-01 Monoamine oxidase MAO is linked to psychiatric and neurological disorders because inhibitors of the enzyme are used clinically for treatment of affective disorders and Parkinson's disease One of the interesting new aspects of MAO is the occurrence in the human population of deletions of genes coding for one or the other enzyme subtype A or B This leads to the possibility of a genetic basis for psychiatric disorders based on MAO Subjects with deletions of type A or B and combined deletions have been described In the first group of 6 papers in this book the occurrence and characterization of these phenotypes as well as the structure of MAO genes is explored Advances in the biochemistry of MAO subtypes and their physiological function and localization in brain and periphery is included Other sections of the book deal with the neuroprotective action of MAO inhibitors and their pharmacology especially the pharmacology of new MAO B inhibitors

Aqueous Two-Phase Systems Harry Walter, Göte Johansson, 1994-04-18 General methodology and apparatus phase diagrams preparation and analysis of two phase systems partitioning and affinity partitioning of macromolecules Proteins nucleic acids studies on protein interactions molecular structure charge hydrophobicity and conformational changes partitioning and affinity partitioning of particulates organelles separation and subfractionation membrane separation and subfractionation membrane domain analysis aqueous phase separation in biological systems aqueous two phase systems in large scale process biotechnology proteins downstream processing design of proteins for enhanced extraction other applications of aqueous phases in biotechnology Enzymology

Hepatitis B and D Protocols Robert K. Hamatake, Johnson Y. N. Lau, 2008-02-02 Despite the availability of an effective vaccine there are still 400 million people worldwide who are chronically infected with hepatitis B virus HBV For them the vaccine as currently applied has no value Given the possible consequences of HBV infection the number of those chronically infected with HBV presents an enormous public health challenge For example the major etiology of hepatocellular carcinoma HCC is chronic infection with HBV Although fifth in cancer incidence worldwide HCC liver cancer is the third leading cause of cancer death The high mortality associated with HCC arises because the disease is often detected late and is unresponsive to treatment The number of deaths caused by PHCC is expected to rise over the next 20 years Those chronically infected with HBV have a life risk of death to HCC of between 10 and 25% Even the limited efficacy of drugs for the treatment of chronic HBV helps underscore the point that this disease is responsive to therapy Drugs that target the polymerase e.g. heparsera and lamivudine and interferon alpha represent two distinct strategies and show that both conventional antiviral and immunotherapeutic approaches can be used in management However the current inventory of therapeutics is inadequate Interferon alpha is of limited value only

parenterally available and fraught with adverse reactions

Innate Immunity Jonathan Ewbank, Eric Vivier, 2008

Immunologists today are interested in all of the diverse cell types involved in host defense and have a deeper appreciation of the importance of innate immune mechanisms as a first line of protection against pathogens. This volume thus discusses the isolation and functional characterization of cells involved in innate immunity in mouse and man including mast cells and eosinophils. Other focuses include natural killer cells, methods in statistics, in vivo imaging, genome engineering and mutagenesis and culture that are adapted to the study of innate immunity in these hosts. These are complemented with a series of chapters dealing with alternative models: plants, worms, mosquitoes, flies and fish. Together these approaches and models are being used to dissect the complex interplay between hosts and pathogens and contribute to developing strategies to help fight infection. With chapters written by experts on the cutting edge of this technology, *Innate Immunity* is an essential reference for immunologists, histologists, geneticists and molecular biologists.

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