

How do I prepare a phosphate buffer solution with a specific pH?

I am a science fair student at Shaker Heights Middle School. I need to make a phosphate buffer solution for my experiment. I am testing the effects of growth hormones on green plant life, and the buffer is to be absorbed by a sponge to aid the hormones in working. I would appreciate any assistance that you can give me. The solution needs to be a .001 M phosphate buffer with a pH of 6.1.

B. Peterson 1/13/98

Recipes for preparing phosphate buffer solutions can be found in many texts and handbooks. For example, the CRC Handbook of Chemistry and Physics recommends preparing a pH 6.10 buffer by adding 6.8 mL of 0.1 M NaOH to 50 mL of 0.1 M KH_2PO_4 . You can then dilute the buffer 1:100 for your needs.

Here is an abbreviated phosphate buffer table taken from Clark's *Determination of Hydrogen Ions*:

Clark and Lubs standard buffer solutions. Add the indicated number of mL of 0.2 M NaOH to 50 mL of 0.2 M KH_2PO_4 , and dilute to 200 mL. Taken from *Determination of Hydrogen Ions*, William and Wilkins, Baltimore, 1928.

pH	mL NaOH	pH	mL NaOH
5.8	3.72	7.0	29.63
6.0	5.70	7.2	35.00
6.2	8.60	7.4	39.50
6.4	12.60	7.6	42.80
6.6	17.80	7.8	45.20
6.8	23.65	8.0	46.80

Be sure you're using the correct phosphate. There are several potassium phosphates which can NOT be used interchangeably in buffer solutions! You want KH_2PO_4 .

Formula	Systematic name	Other names
KH_2PO_4	potassium dihydrogen phosphate	acid potassium phosphate monobasic potassium phosphate monopotassium phosphate potassium biphosphate
K_2HPO_4	potassium hydrogen phosphate	dipotassium phosphate dibasic potassium phosphate
K_3PO_4	potassium phosphate	tripotassium phosphate tribasic potassium phosphate

If you can't find such a recipe, follow this procedure:

1. **Use the Henderson-Hasselbalch equation** to compute the ratio of the base form to acid form at the desired pH. The Henderson-Hasselbalch equation is

Phosphate Buffer Solution Preparation

Chester Jefferson Farmer



Phosphate Buffer Solution Preparation:

Cell Biology Julio E. Celis, 2006 This four volume laboratory manual contains comprehensive state of the art protocols essential for research in the life sciences Techniques are presented in a friendly step by step fashion providing useful tips and potential pitfalls The important steps and results are beautifully illustrated for further ease of use This collection enables researchers at all stages of their careers to embark on basic biological problems using a variety of technologies and model systems This thoroughly updated third edition contains 165 new articles in classical as well as rapidly emerging technologies Topics covered include Cell and Tissue Culture Associated Techniques Viruses Antibodies Immunocytochemistry Volume 1 Organelle and Cellular Structures Assays Volume 2 Imaging Techniques Electron Microscopy Scanning Probe and Scanning Electron Microscopy Microdissection Tissue Arrays Cytogenetics and In Situ Hybridization Genomics and Transgenic Knockouts and Knock down Methods Volume 3 Transfer of Macromolecules Expression Systems Gene Expression Profiling Volume 4 Indispensable bench companion for every life science laboratory Provides the latest information on the plethora of technologies needed to tackle complex biological problems Includes numerous illustrations some in full color supporting steps and results [Handbook of Microbiological Media](#) Ronald M. Atlas, 2004-05-27 It also contains formulations and uses of media for isolation culture identification and maintenance of microorganisms The entries are arranged alphabetically by medium name and include synonyms sources and more This reference contains the most comprehensive compilation of microbiological media available in a single volume The only resou

Microbiological Examination of Water and Wastewater Maria Csuros, 1999-03-26 Microbiological tests have proven to be an indispensable part of environmental contaminant detection It has also been tremendously difficult to find a comprehensive training manual and laboratory manual for those procedures Microbiological Examination of Water and Wastewater now provides that much needed resource for laboratory trainees and environmental professionals alike An all inclusive guide to applications and techniques of microbiological testing Microbiological Examination of Water and Wastewater includes coverage of General Microbiology Environmental Microbiology Environmental Microbiology Laboratory plus Techniques and Methods in Routine Environmental Microbiology Laboratory By exploring the fundamentals of microbiology as well as microbial metabolism growth control and classification trainees will better understand the purpose and manner of microbiological examination Those details also make Microbiological Examination of Water and Wastewater ideal as a standard guidebook for laboratories water and wastewater treatment plants and the communities they serve **Handbook of Microbiological Media, Fourth Edition** Ronald M. Atlas, 2010-03-17 The commercial availability of standard bacteriological media has largely eliminated the need for preparation of such media by most laboratories As a result the composition of such media is generally overlooked Atlas Univ of Louisville provides an encyclopedia on the subject as well as a comprehensive reference containing compositions of all standard media The book begins with an overview of the subject defining terms and providing an extensive list of references

This section includes a summary of sterilization techniques ranging from historical Tyndallization to contemporary modern autoclave. The inclusion of Web resources provides an additional source of information. The major portion of the book consists of more than 7 000 formulations of media both common and obscure and specialized and methods of preparation. This latest edition 1st ed CH Jan 94 31 5434 also includes composition of media for identification of newly recognized pathogens such as Escherichia coli O157 and methicillin resistant Staphylococcus aureus. In addition to the specific media entries within the book the index includes a listing of microorganisms along with media conducive for their growth. The volume would be a necessary reference for any academic or professional laboratory that is growing bacteria. Summing Up Recommended Microbiology collections serving upper division undergraduates and above Upper division Undergraduates Graduate Students Researchers Faculty Professionals Practitioners Reviewed by R Adler Analytical Chemistry Bryan M. Ham, Aihui MaHam, 2024-02-28 ANALYTICAL CHEMISTRY Detailed reference covering all aspects of working in laboratories including safety fundamentals of analytical techniques lab instrumentation and more. A comprehensive study of analytical chemistry as it pertains to the laboratory analyst and chemist. Analytical Chemistry begins with an introduction to the laboratory environment including safety glassware common apparatuses and lab basics and continues on to guide readers through the fundamentals of analytical techniques such as spectroscopy and chromatography and introduce examples of laboratory programs such as Laboratory Information Management Systems LIMS. This newly updated and revised Second Edition of Analytical Chemistry offers expanded chapters with new figures and the latest developments in the field. Included alongside this new edition is an updated companion teaching reference and toolkit program called ChemTech. Conveniently available via either app or browser the ChemTech program contains exercises that highlight and review topics covered in the book and features useful calculators and programs including solution makers graphing tools and more. To aid in reader comprehension the program also includes an interactive periodic table and chapter summaries. Written by two highly qualified authors with significant experience in both practice and academia Analytical Chemistry covers sample topics such as Basic mathematics in the laboratory including different units the metric system significant figures scientific calculators and ChemTech conversion tools. Analytical data treatment including errors in the laboratory precision versus accuracy normal distribution curves and determining errors in methodology. Plotting and graphing including graph construction curve fitting graphs of specific equations least squares method and computer generated curves. Ultraviolet visible UV Vis spectroscopy including wave and particle theory of light light absorption transitions the color wheel and pigments. With complete coverage of the practical aspects of analytical chemistry Analytical Chemistry prepares students for a rewarding career as a chemist or a laboratory technician. Thanks to ChemTech integration the book is also a useful and accessible reference for the established chemist or technician already working in the laboratory. **Standard Methods for the Examination of Water, Sewage, and Industrial Wastes**, 1955 *The Preparation of Catgut for Surgical Use* William Bulloch, Leslie Herbert Lampitt, 1929

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