

# 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  $\text{KH}_2\text{PO}_4$ . 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  $\text{KH}_2\text{PO}_4$ , 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  $\text{KH}_2\text{PO}_4$ .

Formula	Systematic name	Other names
$\text{KH}_2\text{PO}_4$	potassium dihydrogen phosphate	acid potassium phosphate monobasic potassium phosphate monopotassium phosphate potassium biphosphate
$\text{K}_2\text{HPO}_4$	potassium hydrogen phosphate	dipotassium phosphate dibasic potassium phosphate
$\text{K}_3\text{PO}_4$	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

**Ronald M. Atlas**



## **Phosphate Buffer Solution Preparation:**

**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

**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,2010-03-17 Handbook of Microbiological Media Fourth Edition is an invaluable reference for every medical veterinary diagnostic and academic laboratory and now in its fourth edition it is even more complete This edition carries on the tradition of CRC Press handbook excellence listing the formulations methods of preparation and uses for more than

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**The Preparation of Catgut for Surgical Use** William Bulloch, Leslie Herbert Lampitt, 1929

**The Journal of Biological Chemistry**, 1930 Vols 3 include the society's Proceedings 1907  
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*Journal of the American Dietetic Association* American Dietetic Association, 1926 Includes lists of members

**The Biochemical Journal**, 1925 *Year Book of the American Pharmaceutical Association* American Pharmaceutical Association, 1929

**Collected Papers in Physiology and Biological Physico-chemistry** Kyōto Daigaku, 1925

Collected Studies from the Dept. of Physiological Chemistry University of Illinois (Urbana-Champaign campus). College of Medicine. Dept. of Biological Chemistry, 1924

*Standard Methods for the Examination of Water, Sewage, and Industrial Wastes*, 1955

The Journal of Infectious Diseases, 1922

**Practical Physiological Chemistry** Philip Bovier Hawk, Olaf Bergeim, 1926

*A Laboratory Manual of Physiological Chemistry* Chester Jefferson Farmer, 1923

Journal of Morphology, 1927

Reprints of Papers by National Research Fellows in the Biological Sciences ... National Research Council (U.S.). Fellowship in Biological Sciences, 1927

Journal of Morphology and Physiology, 1927

**Proceedings of the Royal Society of London** Royal Society (Great Britain), 1923

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