

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

D Kirk



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

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The Biochemical Journal ,1926
Vols 36 include Proceedings of the Biochemical Society

Methods in Enzymology: Preparation and assay of enzymes
Sidney P. Colowick, Nathan Oram Kaplan, 1965

Journal of the American Dietetic Association American Dietetic Association, 1926 Includes lists of members

The United States Pharmacopeia, the National Formulary ,2007 The USP NF is a combination of two compendia the United States Pharmacopeia USP and the National Formulary NF It contains standards for medicines dosage forms drug substances excipients biologics compounded preparations medical devices dietary supplements and other therapeutics The current version of USP NF standards deemed official by USP are enforceable by the U S Food and Drug Administration for medicines manufactured and marketed in the United States

Journal of the Chemical Society Chemical Society (Great Britain), 1923 Titles of chemical papers in British and foreign journals included in Quarterly journal v 1 12

Journal of the Chemical Society ,1924

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Chester Jefferson Farmer, 1923

Physiological Abstracts ,1930

Endocrinology ,1923 Includes references and abstracts

British Chemical and Physiological Abstracts ,1930

The Military Surgeon ,1920

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

Photometric Chemical Analysis John Howe Yoe, 1929

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The Biochemical Journal, 1958

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