

## phosphate buffer

Information from [cshprotocols.org](http://cshprotocols.org):

Gomori buffers, the most commonly used phosphate buffers, consist of a mixture of monobasic dihydrogen phosphate and dibasic monohydrogen phosphate. By varying the amount of each salt, a range of buffers can be prepared that buffer well between pH 5.8 and pH 8.0 (please see the tables below). Phosphates have a very high buffering capacity and are highly soluble in water. However, they have a number of potential disadvantages:

- \* Phosphates inhibit many enzymatic reactions and procedures that are the foundation of molecular cloning, including cleavage of DNA by many restriction enzymes, ligation of DNA, and bacterial transformation.
- \* Because phosphates precipitate in ethanol, it is not possible to precipitate DNA and RNA from buffers that contain significant quantities of phosphate ions.
- \* Phosphates sequester divalent cations such as  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$ .

0.5L of 1M  $\text{K}_2\text{HPO}_4$  at  $174.18\text{g mol}^{-1} = 87.09\text{g}$

0.5L of 1M  $\text{KH}_2\text{PO}_4$  at  $136.09\text{g mol}^{-1} = 68.045\text{g}$

## preparation of 0.1 M potassium phosphate buffer at 25°C

**Preparation of 0.1 M Potassium Phosphate Buffer at 25°C**

pH	VOLUME OF 1 M $\text{K}_2\text{HPO}_4$ (ml)	VOLUME OF 1 M $\text{KH}_2\text{PO}_4$ (ml)
5.8	8.5	91.5
6.0	13.2	86.8
6.2	19.2	80.8
6.4	27.8	72.2
6.6	38.1	61.9
6.8	49.7	50.3
7.0	61.5	38.5
7.2	71.7	28.3
7.4	80.2	19.8
7.6	86.6	13.4
7.8	90.8	9.2
8.0	94.0	6.0

Dilute the combined 1 M stock solutions to 1 liter with distilled  $\text{H}_2\text{O}$ . pH is calculated according to the Henderson-Hasselbalch equation:

$$\text{pH} = \text{pK}' + \log \left\{ \frac{(\text{proton acceptor})}{(\text{proton donor})} \right\}$$

where  $\text{pK}' = 6.86$  at 25°C.

# Potassium Phosphate Buffer Recipe

**Judd E. Hollander**



### **Potassium Phosphate Buffer Recipe:**

Lab Ref Jane Roskams, Linda Rodgers, 2002 Table of contents Section 1 Most Commonly Used Solutions A Stock Solutions 1 B Biological Buffers 13 C Proteins Enzymes and Antibiotics 27 D Reagents for the Analysis Labeling and Synthesis of Nucleic Acids 35 Section 2 Macromolecular Preparation and Purification Reagents A DNA 43 B RNA 47 C Protein 53 Section 3 Electrophoretic Separation of Proteins and Nucleic Acids A Electrophoresis of DNA RNA and Protein 63 B Transfer Hybridization and Screening of DNA RNA and Protein 81 Section 4 Visualizing Genes and Gene Products A Use of Antibodies for Immunochemical Approaches A Guide 95 B Fixatives 101 C Cytological Stains Chromogen Substrates and Fluorophores 105 D Mounting Media 119 E Microscopy Information 123 Section 5 Specialized Media Buffers and Reagents A Most Commonly Used Bacterial Media and Solutions 133 B Yeast 139 C Xenopus 155 D Mammalian Cell Culture 161 Section 6 Storage and Shipment of Biological Samples 169 A Manual of Applied Techniques for Biological Electron Microscopy

Michael J. Dykstra, 1993-08-31 This easy to follow manual describes tested procedures used to prepare biological samples for scanning and transmission electron microscopy as well as methods for cytochemistry immunocytochemistry and scientific photography The work is structured to clearly define testing objectives necessary materials procedural steps and expected results a list of references and trouble shooting techniques round out the text **Polymer Biomaterials in Solution, As**

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