

Lab 10 – pH and Buffers

A. Objectives:

1. Calculate the pH of a buffer solution.
2. Calculate the pH of a buffer solution.
3. Calculate the pH of a buffer solution.
4. Calculate the pH of a buffer solution.
5. Calculate the pH of a buffer solution.
6. Calculate the pH of a buffer solution.

B. Background: Theoretical Concepts and Calculations

1. Buffers:

A buffer solution is a solution that resists changes in pH when small amounts of acid or base are added. Buffers are important in many biological and chemical systems.

2. Henderson-Hasselbalch Equation: This equation relates the pH of a buffer solution to the concentrations of the weak acid and its conjugate base. The equation is:

$$\text{pH} = \text{pK}_a + \log\left(\frac{[\text{A}^-]}{[\text{HA}]}\right)$$

where pH is the negative logarithm of the hydrogen ion concentration, pK_a is the negative logarithm of the acid dissociation constant, $[\text{A}^-]$ is the concentration of the conjugate base, and $[\text{HA}]$ is the concentration of the weak acid.

3. Buffer Capacity: The buffer capacity of a solution is its ability to resist changes in pH. It is determined by the concentration of the weak acid and its conjugate base. The buffer capacity is highest when the concentrations of the weak acid and its conjugate base are equal.

4. Buffer Preparation: Buffers can be prepared by mixing a weak acid with its conjugate base or by mixing a weak base with its conjugate acid.

Concentration (M)	pH	Concentration (M)	pH	Concentration (M)	pH
0.1 M acetic acid		0.1 M acetic acid		0.1 M acetic acid	
0.1 M sodium acetate		0.1 M sodium acetate		0.1 M sodium acetate	
0.1 M acetic acid		0.1 M acetic acid		0.1 M acetic acid	

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Dr.,2020-01-03 The 25 laboratory sessions in this manual have been designed to introduce beginning students to the major concepts of biology while keeping in mind minimal preparation for sequential laboratory use The laboratories are coordinated with Essentials of Biology a general biology text that covers all fields of biology In addition this Laboratory Manual can be adapted to a variety of course orientations and designs There are a sufficient number of laboratories and exercises within each lab to tailor the laboratory experience as desired Then too many exercises may be performed as demonstrations rather than as student activities thereby shortening the time required to cover a particular concept **Biology & Lab Manual**

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