

## Lab 10 – pH and Buffers

### A. Objectives:

1. Calculate the proper stoichiometry and molar ratios.
2. Understand and explain how the pH scale works.
3. Understand and describe the concept of buffer capacity and strength.
4. Compare acids and bases in their conjugate pairs.
5. Calculate the pH of various buffer solutions.
6. Calculate experimental data, molar ratios and buffer capacity of acids and bases.

### B. Background: Theoretical Basis, Theory and Concepts

#### 1. Buffers:

Chemical substances or a combination of them that resist changes in pH when reacting with strong acids or bases. Buffers are solutions that resist changes in pH when reacting with strong acids or bases.

2. Buffers and their capacity: A buffer is a solution of a weak acid and its conjugate base. The capacity of a buffer is the amount of acid or base that can be added to the solution without causing a significant change in pH. The capacity of a buffer is determined by the concentration of the weak acid and its conjugate base.

3. Buffer capacity: The buffer capacity is the amount of acid or base that can be added to the solution without causing a significant change in pH. The buffer capacity is determined by the concentration of the weak acid and its conjugate base.

4. Buffer capacity: The buffer capacity is the amount of acid or base that can be added to the solution without causing a significant change in pH. The buffer capacity is determined by the concentration of the weak acid and its conjugate base.

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	

# Ph Sc 108 Lab Manual

**E Durkheim**



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