

# Lab Protocol: Module 05 – Membranes

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BIOL-1

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Lab Title

[To be determined]

## Overview

This lab protocol is a stub and will be developed with detailed procedures, materials, and safety information.

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## Learning Objectives

- Describe the fluid mosaic model of membrane structure
- Observe osmosis and diffusion in living cells
- Differentiate between hypertonic, hypotonic, and isotonic solutions
- Understand selective permeability of membranes
- Analyze the effects of concentration gradients on cell behavior

## Estimated Duration

2-3 hours

## Materials Needed

[To be listed]

## Safety Considerations

[To be listed]

## **Procedure**

*[To be developed]*

## **Data Collection**

*[To be developed]*

## **Analysis Questions**

*[To be developed]*

## **Conclusion**

*[To be developed]*

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*Note: This is a placeholder document. Complete lab protocol to be developed.*