

## **Biology RP4 - Investigation into the effect of a named variable on the permeability of cell-surface membranes.**

### **Method:**

#### **1. Preparation**

- **Cut Beetroot:** Use a scalpel to cut the beetroot into 6-10 identical cubes (approximately 1 cm<sup>3</sup> each).
- **Rinse:** Rinse the beetroot cubes to remove any surface pigment.

#### **2. Setting up**

- **Prepare Solutions:** Prepare a range of ethanol solutions with varying concentrations (e.g., 0%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100% ethanol in distilled water).
- **Label Boiling Tubes:** Label boiling tubes for each ethanol concentration.

#### **3. Experiment**

- **Place Beetroot in Solutions:** Place one beetroot cube into each boiling tube containing the different ethanol concentrations.
- **Incubate:** Leave the tubes in a water bath at a constant temperature (e.g., 30°C) for 20 minutes to allow the pigment to leak out of the beetroot cells.

#### **4. Filtration**

- **Filter Solutions:** After 20 minutes, use filter paper to filter each solution into a separate cuvette, removing the beetroot pieces.

#### **5. Measurement**

- **Set Up Colorimeter:** Set the colorimeter to a blue filter and zero it using a cuvette with distilled water.
- **Measure Absorbance:** Measure the absorbance of each filtered solution using the colorimeter. Record the absorbance values.

#### **6. Analysis**

- **Plot Graph:** Plot a graph of absorbance against ethanol concentration.
- **Interpret Results:** Higher absorbance indicates higher permeability of the cell membrane, meaning more pigment has leaked out.

# Membrane Permeability Lab Report

**Lingsheng Yao**



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