

Lab: DNA Extraction from Human Cheek Cells

Introduction

DNA is in the nucleus of almost every cell in your body. The length of DNA per cell is about 100,000 times as long as the cell itself. However, DNA only takes up about 10% of the cell's volume. This is because DNA is specially packaged through a series of events to fit easily in the cell's nucleus.

Individual chromosomes can be studied using microscopes, but the double helix of a chromosome is so thin that it only be detected through innovative, high-tech procedures. Chromosomal DNA from a single cell is not visible to the naked eye. However, when chromosomal DNA is extracted from multiple cells, the amassed quantity can easily be seen and looks like strands of mucous-like, translucent cotton.

Materials

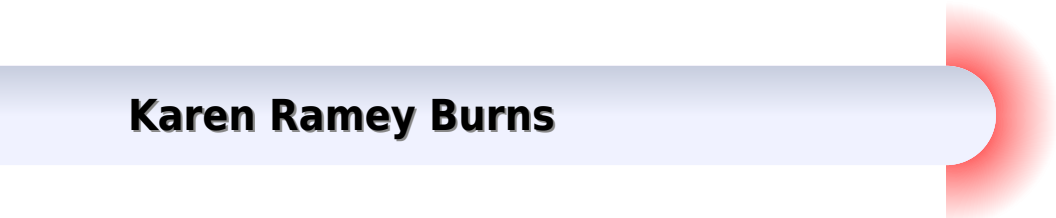
3 plastic beakers	spoon	rubber stoppers
100-mL graduated cylinder	scoop	cup
10-mL graduated cylinder	salt	ethyl alcohol
distilled water	weighing tray	4 pipettes
dishwashing soap	test tube and rack	

Procedure

1. Each student will get one test tube, one rubber stopper, and one Dixie cup.
2. Each table will prepare one extraction buffer.
3. From each table, 2 students will gather the following items and perform the following:
 - a. grab one small beaker and pour about **70 mL** of distilled water into beaker.
 - b. grab a second small beaker and pour about **5 mL** of dishwashing soap into beaker
 - c. pour less than a **spoonful** of salt into a weighing tray
 - d. bring all of these items back to your table along with a **100-mL graduated cylinder, 10-mL graduated cylinder, a spoon, a colored scoop, and a large beaker.**
4. Prepare the extraction buffer by using the items you gathered in the **previous step**.
 - measure **62.5 mL** of distilled water (use 100 mL graduated cylinder) and pour into large beaker
 - measure **3.15 mL** of dishwashing soap (use 10 mL graduated cylinder) and pour into large beaker
 - salt (**1/4 of spoon**) (use scoop if needed) and add to large beaker

Dna Extraction Lab Cheek Cells Analysis Questions

Karen Ramey Burns



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definitive source of information on techniques for the identification and sequencing of old DNA pieces and their use in biological and medical research and application Application of aDNA techniques are useful tools for investigations reaching from evolutionary studies to law enforcement approaches What brings them together is the interest in specific methods of handling aDNA i e elaborated PCR and sequencing techniques and the interpretation of the results This books serves as an ideal guideline for it demonstrates how problem solving strategies can be applied in various areas **Forensic DNA**

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