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 n
100-mL graduated cylinder scoop c
10-mL graduated cylinder salt e
distilled water weighing tray 4
dishwashing soap test tube and rack

rubber stoppers cup ethyl alcohol 4 pipettes

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:
 - 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 <u>large</u> 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

Lorenzo More, Carmem Gottfried, Patricia Pelufo Silveira

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Conference Proceedings. New Perspectives in Science Education Pixel, 2015

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