

Strawberry DNA Preview



Name _____

Strawberry DNA



Activity Purpose: To use chemistry to extract the DNA from the cells of a strawberry.

- ☐ Make a detergent solution by adding 1 part detergent to 10 parts water. What do you think the detergent will do to the strawberry cells?

Strawberry DNA

Facilitator Notes

Activity Summary: A fun and surprisingly easy method can be used to extract strawberry DNA. The activity is designed for students to work in groups. Students will use detergent to break down the cell walls of the strawberry cells. The detergent will break down the cell walls of the strawberry cells. The detergent will break down the cell walls of the strawberry cells.

Complete Procedure

Strawberry DNA Lab

Lab Setup

4 of Detergent Rubies

Substance	Volume
Strawberry Juice	100 mL
Detergent	10 mL

Detergent Solution
Just combine 1 part detergent to 10 parts of water. The detergent will break down the cell walls of the strawberry cells.

Extracting Strawberry DNA

1. List the steps of the procedure in their correct order.

STEP

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

- A. Separate the particles from the solution.
- B. Add and wash the strawberry.
- C. Add particles to the solution.
- D. Pour the solution into a bag.
- E. Pour the solution into a bag.

2. What was the purpose of the detergent?

3. Explain what happened after you added strawberry extract.

4. Why do scientists extract DNA from organisms?

5. Add and wash the strawberries.

This is a fun part for students. Add two three strawberries and wash the bag. Students wash the strawberries into the solution by using their hands. Caution them to be careful when pouring. Pour the solution into a bag. Pour the solution into a bag. Pour the solution into a bag.



6. Pour the solution into a bag.

Put a small amount of water in the bag. The strawberry will break down the cell walls of the strawberry cells. The strawberry will break down the cell walls of the strawberry cells. The strawberry will break down the cell walls of the strawberry cells.



7. Pour the solution into a bag.

Put a small amount of water in the bag. The strawberry will break down the cell walls of the strawberry cells. The strawberry will break down the cell walls of the strawberry cells. The strawberry will break down the cell walls of the strawberry cells.



The DNA is visible in the solution. As the solution of the strawberry cells, the DNA is visible and can be extracted.

8. Pour the solution into a bag.

Put a small amount of water in the bag. The strawberry will break down the cell walls of the strawberry cells. The strawberry will break down the cell walls of the strawberry cells. The strawberry will break down the cell walls of the strawberry cells.



The *gooey* substance is interesting to students!

Answer Key

Extracting Strawberry DNA

1. List the steps of the procedure in their correct order.

STEP

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

A

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