

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 method involves crushing the strawberry cells, adding detergent to break down the cell walls, and then adding alcohol to precipitate the DNA. The DNA can be seen as a white, stringy substance.

Complete Procedure

Strawberry DNA Lab

Lab Setup

4 of Detergent Rubies

Substance	Volume
Strawberry Juice	100 mL
Detergent	10 mL
Alcohol	10 mL

Detergent Solution
Just combine 1 part detergent to 10 parts of water. The detergent will break down the cell walls, and the alcohol will precipitate the DNA.

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 strawberries.
- 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 crush the strawberries into the solution by using their hands. Caution them to be careful when pouring the solution into the bag.



6. Pour the solution into a bag.

Put a small amount of water in the bag and pour the strawberry extract into the bag. The solution will be a pink color.



7. Pour the solution into a bag.

Put a small amount of water in the bag and pour the strawberry extract into the bag. The solution will be a pink color.



The DNA is visible in the solution. As the solution is poured into the bag, the DNA precipitates and can be seen.

8. Pour the solution into a bag.

Put a small amount of water in the bag and pour the strawberry extract into the bag. The solution will be a pink color.



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. _____
7. _____
8. _____

A Fun Hands-on Activity!

2. What was the purpose of the detergent?

The detergent is to break down the cell walls and precipitate the DNA.

3. Explain what happened after you added strawberry extract to the solution.

The solution will be a pink color. The DNA will be visible in the solution. As the solution is poured into the bag, the DNA precipitates and can be seen.

4. Why do scientists extract DNA from organisms?

To study the genetic material of an organism and to see how it changes over time.



Strawberry Dna Extraction Lab Questions

Brian Michael Topping



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