

Group Names: Yusuf, Ashanty, Marlon, Loreyna, Adrien

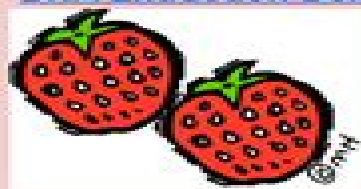
Per. { 3 } Date: { 3/2/22 }

1. Yusuf	2. Marlon	3. Adrian
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Strawberry DNA Extraction Lab

****Pre-Lab Videos****

[Strawberry DNA Extraction Explanation](#)
[DNA Extraction Demo](#)



Objective: To become familiar with the lab procedure for extracting DNA from a living or once living source; Determine reasons for collecting DNA samples; Observe the physical characteristics of DNA.

Directions:

DNA is simple to extract from living cells. It involves mechanically breaking down cell walls (if you're working with plant tissue), dissolving cell membranes and nuclear membranes, separating the DNA from cellular proteins, dissolving the DNA in water, and then precipitating the DNA from solution.

Many tissues work well for DNA extraction, including strawberries, fresh liver, wheat germ, and onion.

Strawberries happen to be pleasant to work with, so we will be extracting DNA from strawberries.

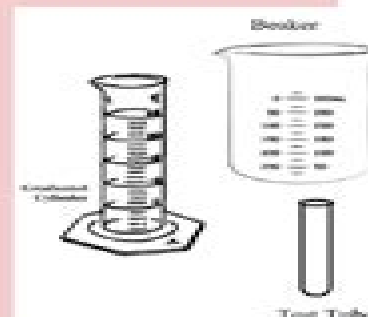
Humans have two sets of chromosomes (diploid), but the garden strawberry, *Fragaria ananassa*, has eight sets of chromosomes (octoploid) that will supply an abundance of DNA for this experiment. Commercial strawberries, therefore, make an excellent subject for collecting DNA.

Another reason strawberries work so well is that they are soft and easy to smash. Also, ripe strawberries produce enzymes (pectinases and cellulases), which help in breaking down the cell walls making it easier to extract the DNA.

After completing this lab, the extraction will result in beautiful, pure white strands of spoolable DNA. It is so easy and is so much more effective than extracting DNA from any other source! You will never be able to eat a strawberry again without thinking of how much DNA is in it!

Safety Precautions

- ★ Most of the chemicals are fairly mild but treat all chemicals with respect.
- ★ Wear safety goggles.
- ★ Make sure you wash your hands after the lab.
- ★ Wear gloves if you know you have an allergic reaction to contact with strawberries



Strawberry Dna Extraction Answers

Felicity Pagan



Strawberry Dna Extraction Answers:

Embracing the Beat of Appearance: An Emotional Symphony within **Strawberry Dna Extraction Answers**

In some sort of used by monitors and the ceaseless chatter of quick transmission, the melodic beauty and psychological symphony produced by the published term usually disappear into the background, eclipsed by the constant noise and disruptions that permeate our lives. However, nestled within the pages of **Strawberry Dna Extraction Answers** an enchanting literary value filled with fresh thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, this captivating masterpiece conducts visitors on an emotional journey, well unraveling the hidden songs and profound impact resonating within each carefully crafted phrase. Within the depths of this poignant review, we can examine the book's main harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers' souls.

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