***STRAWBERRY DNA LAB***



**PURPOSE:** To extract DNA from a strawberry.

**HYPOTHESIS**: If I use an extraction buffer solution, made of water, soap, and salt, then I can extract DNA from a strawberry.

**MATERIALS:**

* Strawberry
* Beaker
* Coffee Filter
* Ziploc Bag
* Rubbing Alcohol
* Glass Stirring Rod

**PROCEDURE:**

1. Place one strawberry in a Ziploc bag.

**DATA:**

|  |  |
| --- | --- |
| **After Adding Rubbing Alcohol** -  What did I see? | **After dipping in the glass stirring into strawberry solution –**  What did I see? |

**RESULTS: (Answer the following questions for this lab INSTEAD of 3 I Learned Statements)**

1. **What did the DNA look like? Relate what you know about the chemical structure of DNA to what you observed today.**
2. **Explain what happened in the final step when you added rubbing alcohol to your strawberry extract. (Hint: DNA is soluble (able to dissolve) in water, but not in rubbing alcohol.)**

1. **A person can see a single cotton thread 100 feet away, but if you wound thousands of threads together into a rope, it would be visible much farther away. Is this statement true for our DNA extraction? Explain.**
2. **Why is it important for scientists to be able to remove DNA from an organism? List two reasons.**

**CONCLUSIONS: (Restate your hypothesis, sum up data, and future plans)**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**