

DNA Lab

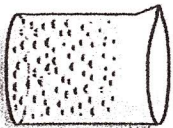
Purpose: Observe onion cell DNA

Materials Needed

- | | | | |
|-------------------------|------------------------------------|------------|--------|
| 1 cup chopped onion | $\frac{1}{4}$ cup warm water | blender | funnel |
| 1 teaspoon salt | $\frac{1}{4}$ cup liquid dish soap | toothpicks | slides |
| 2 small beakers or jars | meat tenderizer | microscope | |

Procedure

- Step 1:** Blend chopped onions, warm water, and salt.
- Step 2:** Pour mixture into a small glass beaker or jar.
- Step 3:** Add liquid dish soap and mix gently for 5 minutes.
- Step 4:** Pour mixture into the funnel and filter out all the liquid into another small glass beaker or jar.
- Step 5:** Add meat tenderizer to the liquid.
- Step 6:** Measure the filtered liquid.
- Step 7:** Add an equal amount of rubbing alcohol to the mixture. The alcohol will form a separate layer on top of the onion mixture.
- Step 8:** The white strings floating to the top are DNA. Gently stir the alcohol layer.
- Step 9:** Use a toothpick to remove a white DNA string and place on a slide.



Observation

Observe the DNA under a microscope. Record your observations.

Apply
If you removed DNA from other plants, would it look different from the DNA of an onion?
Explain your answer.

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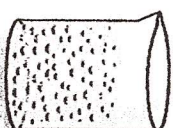
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