

Science 9: LG 3 4-1D Extracting DNA from Strawberries

Safety:

No eating or drinking
 Don't put your hands near your face
 Wear appropriate safety equipment
 Handle ethanol with care (poisonous)
 Wash equipment, desk and hands thoroughly after lab

Purpose or Question: To extract and observe strawberry DNA.

Pre-Lab Theory:

Hypothesis: (*If/Then Statement*)

Materials:

1 frozen strawberry	ethanol (ice cold)
2.5 ml salt	ziplock bag
5 ml dish soap	graduated cylinder
25 ml tap water	test tube and test tube rack
scoopula	wooden splint
paper towel	

Procedure: (refer to p. 133 of BC SCIENCE 9)

Observations: Describe and draw the appearance of the DNA after you added the ethanol.

Descriptions	Diagrams

Questions: See page p. 133, "What did you find out?"

1. Did the DNA look as you expected it? Explain

2. Do you think the DNA from another organism would have a different appearance? Explain why or why not?

3. What do you think it was necessary to crush the strawberry in the activity?

4. What step was necessary to make the DNA visible?

5. If you wanted to maximize the amount of DNA that was extracted, what ingredient might you increase and why?

Conclusion: (6 points, see outline for lab writing)