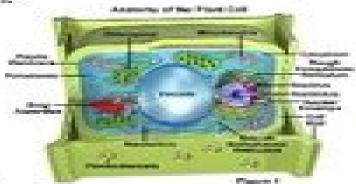
Berry Full of DNA: DNA Extraction Lab

DNA is present in every cell of plants and animals. Strawberries are a good source of DNA because some strawberries are diploid (2 copies of each chromosome - 14 chromosomes in total) and others are even tetraploid or pentaploid (4 or 5 copies of each chromosome). You will never be able to eat a strawberry again without thinking of how much DNA is in it.

Simply put, DNA extraction is the removal of DNA from the nucleus of the cells in which it is normally located. DNA may be extracted for many reasons diagnosing disease and genetic disorders, analyzing forensic evidence or studying genes, such as those involved in cancer. The DNA found in strawberry cells can be extracted using common, everyday materials. We will use an extraction buffer containing salt, to break up protein chains that bind around the nucleic acids, and dish soop to dissolve the lipid (fat) part of the strawberry cell wall and nuclear membrane. This extraction buffer will help provide us access to the DNA inside the cells.

Pre-lab questions:

- 1. Where in DNA found in a cell?
- Explain the function of DNA? (Criterion A)
- Can you typically see DNA with your eyes alone?



 Based on your understanding of DNA structure, explain what you think the DNA will look like? Why? (Criterion B)

Materials:

- bearry duty zip-lock bag
- 1 strawberry

- 10 ml, DNA extraction buffer (spape, salty water)
- coffee filter

Berry Full Of Dna Lab Answers

Lei Huang

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