

Banana DNA Extraction Lab

Objectives:

Describe where DNA is located in a plant cell.

Explain what procedures are required to release DNA from a plant cell

Observe the extraction of Genomic DNA from plant cells.

Name: _____

My Mark: _____/15

Teacher Mark: _____/15

Full of DNA

What can we tell about the molecular structure of DNA by studying the characteristics of DNA when we purify it from bananas?

Background: We will break open the cells of bananas and isolate the DNA from the rest of the cell debris. Bananas are a good source of DNA because some bananas are diploid (2 copies of each chromosome – 22 chromosomes in total) and others are even triploid banana (3 copies of each chromosome). You will never be able to eat a banana again without thinking of how much DNA is in it!



Introduction:

The process of isolating DNA from a cell is the first step of many laboratory procedures in biotechnology. The scientist must be able to separate the DNA from the unwanted substances of the cell gently enough so that the DNA is not broken up and sheared.

A “filtrate” is made of bananas and treated with a buffer containing salt (NaCl) and distilled water. . The salt solution acts as a buffer to maintain a constant pH and binds up the positive ions to prevent enzymes (DNases) from chewing up the DNA. The salt shields the negative phosphates of the DNA which allows these ends to come closer so that they can precipitate out of a cold alcohol solution. A detergent is added which causes the cell membrane to break down by emulsifying the lipids and proteins which allows the cell membrane to break apart.

Conclusion Of Banana Dna Extraction Lab

Brendan G. Carr



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