

Extracting DNA from a Banana Experiment

Video of this experiment can be found here:
<https://www.youtube.com/watch?v=ew9-YGropiW>

Aim: To extract DNA from a banana using simple household items

Hypothesis:

DNA is found in the cells of every living organism. It is incredibly small, but we can see it by extracting DNA and isolating chains of it.

Materials:

- Half a peeled banana
- distilled water
- plastic sealable bag or beaker
- plastic cup
- shampoo or dishwashing liquid
- table salt
- chilled isopropyl alcohol (90%)
- spoon
- coffee filter or paper towel
- clear test tube
- toothpick or skewer

Methods:

1. First you will need to put the $\frac{1}{2}$ banana and $\frac{1}{4}$ cup of distilled water in the plastic bag, seal the bag and mash them to make your slurry.
2. In the plastic cup, mix a solution of 1 tsp. shampoo, 2 pinches of salt and 4 tsp. distilled water. Stir this solution slowly for about a minute until the shampoo dissolves in the water.

Dna Banana Extraction Lab Answers

RC Schank



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