# *Dna Banana Extraction Lab Answers*

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**Dna Banana Extraction Lab Answers**
When extracting DNA from a banana, the DNA must release from the cell by breaking apart or lysing the cellular and nuclear membranes.

**Why do we mash the banana in banana DNA extraction lab?**
Background: We will break open the cells of bananas and isolate the DNA form 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).

**Banana DNA Extraction Lab - Aimee Kornelsen**
Extracting DNA in 10 Easy Steps. Mush the banana in the resealable bag for about a minute until all the lumps are gone and it almost looks like pudding. Fill a cup with the hot water and salt. Pour the saltwater mix into the bag. Close the bag and very gently squeeze and move the saltwater and banana mush together.

**Banana DNA Extraction | Ask A Biologist**
Best Answer: In extraction of DNA. Both the DNA and RNA will be there in the solution when is it chloroform treated!!! some mRNA will be degraded by chloroform itself and most will be degraded by treating with ribonuclease. Then only the DNA will be under ethanol treatment for purification.

**Banana DNA Extraction Lab? | Yahoo Answers**
Background. In this lab, the class will extract DNA from a banana. To do this, students must release the DNA from the cell by breaking apart, or lysing, the cellular and nuclear membranes. This is performed by mashing the banana and adding a detergent/salt solution. The DNA is then cleansed with the meat tenderizer,...

**eGFI – For Teachers » Lesson: Extract DNA from a Banana**
Questions to think about after extracting banana DNA (write you answers below). What did the DNA look like? Do you think you used one ingredient that was more important than the others? Why? Name five things that would not have DNA. If you could take all the DNA out of your body, would it fit on a plate? If not a plate, what would it fit in?

**Ask A Biologist - Banana DNA Extraction - Activity**
DNA Isolation The students will add 1 ml of DNA buffer to each food sample and to each control tube. Mix the contents well by “flicking” the tubes 2 or 3 times. When adding the 2 ml of alcohol, pipette it slowly down the side of each test tube to form a layer that floats on top of the sample.

**erries…with a side of DNA? - Towson University**
Using your knife, cut your banana into tiny pieces to expose more of the cells. Place your banana pieces in the blender, add a teaspoon of salt and slightly cover the mixture with warm water. The salt will help the DNA stay together during the mashing process. Mix in the blender for 5 to 10 seconds making sure the mixture is not too runny.

**How to Extract DNA From a Banana - ThoughtCo**
Answer Key for Strawberry DNA Lab Part I: Questions 1. What was the purpose of mashing up the strawberry? To break down the cell wall, cellular and nuclear membranes. 2. What does the extraction buffer do? (Hint: Extraction buffer contains soap. What does soap do when you wash your hands?)

**Answer Key for Strawberry DNA Lab - Prince Edward Island**
Just like us, banana plants have genes and DNA in their cells, and just like us, their DNA determines their traits. Using only our eyes, we couldn't see a single cell or the DNA inside of it. If we remove DNA from millions of cells, however, we will be able to view it without a microscope. That is what we will do today!

**Find the DNA in a Banana - Scientific American**
During the DNA extraction, the soap pulls apart the fats (lipids) and proteins that make up the membranes surrounding the cell and nucleus. Once these membranes are broken apart, the DNA is released from the cell. The salt enables the DNA strands to come together, or aggregate. The DNA precipitates out of the solution when the alcohol is added.

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