

## ***Banana Dna Extraction Lab Answers***

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### **Banana Dna Extraction Lab Answers**

Extracting DNA from a Banana and Other Fruits. These instructions are in segments of DNA called genes. Genes, along with other parts of our DNA that turn genes on and off, hold information for how our body develops and functions. They produce molecules called proteins that do most of the work in the body.

### **Banana DNA Extraction | Ask A Biologist**

Procedure for Extraction Buffer. 1. Put 1/3 of a banana into the ziplock bag, squeezing out all air 3. Gently mash the banana to a pulp for 2 minutes 4. Open the bag and add 20 mL extraction buffer into ziplock bag 5. Filter the mixture through a cheese cloth, save the filtrate (liquid coming through) 6.

### **Banana DNA Extraction Lab - Aimee Kornelsen**

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**

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.

### **Banana DNA Extraction - rhfleet.org**

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**

deoxyribonucleic acid (DNA) from parent cells to offspring cells. DNA provides a blueprint for an organism's growth and development. Studying DNA is one way scientists learn about what is necessary for life. In this activity, you will extract and observe DNA from bananas. Procedure 1. Put 1/2 cup of distilled water and one banana into the blender.

### **Artificial Life Viewing Activity Teacher Notes Extracting ...**

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**

Transcript of Strawberry and Banana DNA Extraction. Strawberry and Banana DNA Extraction. Procedures. Put the strawberry in the bag, squeeze out most of the air and seal the bag. Then crush the strawberry into juice and pulp. Make sure everything has been crushed and there is no chunks left. Next open the bag and add 10 ml of extraction buffer.

### **Strawberry and Banana DNA Extraction - Prezi**

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.

### **Find the DNA in a Banana - Scientific American**

DNA extraction and to avoid violent shaking or mixing that would shear the DNA. The process of isolating DNA requires that it be released from a cell whether it is a plant (which has extra protection with a cell wall), animal, fungi, or bacterium.

### **DNA Extraction Lab - Towson University**

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**

Artificial Life Viewing Activity Teacher Notes (cont.) Procedure 1. Review the procedure with students, discussing key terms and responding to any questions. Explain that crushing the bananas separates its cells and exposes them to the soap and salt.

### **Artificial Life Viewing Activity Teacher Notes Extracting ...**

VGEC: Teacher Notes Go Bananas! A simple laboratory practical in which DNA is extracted from bananas using everyday chemicals. DNA is the chemical genes are made from. It contains a code that specifies the amino acid sequences of proteins. Proteins do jobs within cells, and the proteins a cell makes determine what type of cell it becomes

### **VGEC: Teacher Notes Go Bananas! - University of Leicester**

Why do we mash the banana in banana DNA extraction lab? 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?**

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**

The American Society for Microbiology (ASM) is the oldest and largest single life science membership organization in the world. Membership has grown from 59 scientists in 1899 to more than 39,000 members today, with more than one third located outside the United States. The members represent 26 disciplines of microbiological specialization plus a division for microbiology educators.

### **Browse By K-12 Educator | ASM.org**

Analysis & Conclusion/Discussion Drafting ... The banana DNA was easy to see as it was a light pink/clear and it was chunky and had thick pieces when picked up with the skewer but it appeared shredded in the liquid. The banana DNA was circular and was very separated into many smaller pieces. ... How to Extract DNA from a Banana - Regina Bailey .

### **Analysis & Conclusion/Discussion - Jessica's RESEARCH PROJECT**

DNA Extraction Lab: Strawberry. Background: The long, thick fibers of DNA store the information for the functioning of the chemistry of life. DNA is present in every cell of plants and animals. The DNA found in strawberry cells can be extracted using common, everyday materials.

### **DNA Extraction Lab: Strawberry - Northern Arizona University**

I just did a DNA extraction lab for both banana and strawberry... my group and others have achieved the same result: we were able to extract more DNA from banana as opposed to strawberries. Given that banana is only a triploid (33 chromosomes) and strawberries being a

octoploid (56 chromosomes), how come I got more yield from banana? Please help, I have searched and used google, yet it is ...

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