

DNA Extraction - Strawberry

Strawberries are octaploid, which means they have eight sets of chromosomes. The procedure for extracting DNA from a strawberry is simple, and the results are usually obvious. It is easy to see the white strands of DNA within the pink solution of strawberry juice.

In this procedure, you will crush a strawberry and add detergent and salt to break down the cell walls to release the DNA within the nucleus. You will then filter the liquid from the crushed strawberry into a beaker. The substance is called the **filtrate**. This filtrate is then poured into a test tube and a layer of alcohol is poured over the top. The DNA will then **precipitate** into the alcohol layer in a test tube.

Objectives:

- Extract DNA from a strawberry using household products
- Identify the role of chemicals in the process of extracting DNA
- Creating a larger sample of DNA

Materials Needed:

- DNA Extraction Buffer 1000 ml of deionized water, 50 ml of cheer dish detergent, 1 teaspoon of salt
- Strawberry (other fruits also work)
- Ziploc bag
- Coffee filter and funnel
- Test tubes, beakers, or cups to collect filtrate

Procedure:

1. Add a strawberry (or half) to a Ziploc storage bag. ☐
2. Add 100 ml of the DNA-extraction buffer and mash the strawberry and buffer for about one minute. ☐
3. Use a funnel and coffee filter to filter the strawberry juice into a beaker. ☐
4. Transfer the filtrate to a test tube. you should only fill the test tube about half full and avoid transferring any foam. ☐
5. Slowly pour 200% ethanol or 91% isopropyl alcohol over the top of the strawberry mixture. It may be best to use a pipette to add it. You want a single layer of clear ethanol on top of the strawberry mixture. ☐
6. White strands will form in the ethanol layer, use a stirring rod to spool the strands. ☐

Discussion:

1. What does DNA from the strawberry look like?
2. Why is it important for scientists to be able to remove DNA from cells?
3. What is the role of detergent, ethanol, and salt in the extraction process?
4. What is the difference between the filtrate and the precipitate?
5. Is there DNA in your food? How do you know? Why are you not harmed (or altered) by ingesting the DNA of another organism?



Fruit Dna Extraction Lab Conclusion

Victor M. Corman



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Formative Report on the Extraction of Strawberry DNA Clarissa Rasshleen, 2023-03-28 Forschungsarbeit aus dem Jahr 2021 im Fachbereich Biologie Genetik Gentechnologie Sprache Deutsch Abstract This is a formative report The aim is to investigate the strawberry DNA by extracting it using isopropyl alcohol and a DNA extraction solution to learn more about the DNA

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Table of Contents **Fruit Dna Extraction Lab Conclusion**

1. Understanding the eBook **Fruit Dna Extraction Lab Conclusion**
 - The Rise of Digital Reading **Fruit Dna Extraction Lab Conclusion**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Fruit Dna Extraction Lab Conclusion**
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an **Fruit Dna Extraction Lab Conclusion**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Fruit Dna Extraction Lab Conclusion**
 - Personalized Recommendations
 - **Fruit Dna Extraction Lab Conclusion** User Reviews and Ratings
 - **Fruit Dna Extraction Lab Conclusion** and Bestseller Lists

5. Accessing Fruit Dna Extraction Lab Conclusion Free and Paid eBooks
 - Fruit Dna Extraction Lab Conclusion Public Domain eBooks
 - Fruit Dna Extraction Lab Conclusion eBook Subscription Services
 - Fruit Dna Extraction Lab Conclusion Budget-Friendly Options
6. Navigating Fruit Dna Extraction Lab Conclusion eBook Formats
 - ePub, PDF, MOBI, and More
 - Fruit Dna Extraction Lab Conclusion Compatibility with Devices
 - Fruit Dna Extraction Lab Conclusion Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fruit Dna Extraction Lab Conclusion
 - Highlighting and Note-Taking Fruit Dna Extraction Lab Conclusion
 - Interactive Elements Fruit Dna Extraction Lab Conclusion
8. Staying Engaged with Fruit Dna Extraction Lab Conclusion
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fruit Dna Extraction Lab Conclusion
9. Balancing eBooks and Physical Books Fruit Dna Extraction Lab Conclusion
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fruit Dna Extraction Lab Conclusion
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fruit Dna Extraction Lab Conclusion
 - Setting Reading Goals Fruit Dna Extraction Lab Conclusion
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fruit Dna Extraction Lab Conclusion
 - Fact-Checking eBook Content of Fruit Dna Extraction Lab Conclusion
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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