

Strawberry DNA Preview



Name _____

Strawberry DNA



Activity Purpose: To use chemistry to extract the DNA from the cells of a strawberry.

- ☐ Make a detergent solution by adding 1 part detergent to 10 parts water. What do you think the detergent will do to the strawberry cells?

Strawberry DNA

Facilitator Notes

Activity Summary: A fun and surprisingly easy method can be used to extract strawberry DNA. The activity is designed to be a hands-on activity for students. Students can use a detergent solution to break down the cell walls of the strawberry cells. The detergent will break down the cell walls, and the DNA will be released. The DNA will be visible as a white, stringy substance. The activity is designed to be a hands-on activity for students. Students can use a detergent solution to break down the cell walls of the strawberry cells. The detergent will break down the cell walls, and the DNA will be released. The DNA will be visible as a white, stringy substance.

Complete Procedure

Strawberry DNA Lab

Lab Setup

4 of Detergent Ruben

Substance	Volume
Strawberry Juice	100 mL
Detergent Solution	100 mL

Detergent Solution
Just estimate 1 part detergent to 10 parts of water. The detergent will break down the cell walls of the strawberry cells. The detergent will break down the cell walls, and the DNA will be released. The DNA will be visible as a white, stringy substance.

Extracting Strawberry DNA

1. List the steps of the procedure in their correct order.

STEP

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

- A. Separate the particles from the solution.
- B. Add and wash the strawberry.
- C. Add particles to the solution.
- D. Pour the solution into a bag.
- E. Pour the solution into a bag.

2. What was the purpose of the detergent?

3. Explain what happened after you added strawberry extract.

4. Why do scientists extract DNA from organisms?

5. Add and wash the strawberries.

This is a fun part for students. Add two three strawberries and wash the bag. Students wash the strawberries into the solution by using their hands. Caution them to be careful when pouring. Pour the strawberry juice into the solution. The DNA will be released. The DNA will be visible as a white, stringy substance.



6. Pour the solution into a bag.

Put a small amount of the solution into a bag. The DNA will be released. The DNA will be visible as a white, stringy substance. The DNA will be visible as a white, stringy substance.



7. Pour the solution into a bag.

Put a small amount of the solution into a bag. The DNA will be released. The DNA will be visible as a white, stringy substance. The DNA will be visible as a white, stringy substance.



The DNA is visible as a white, stringy substance. At the surface of the strawberry, the DNA is released and can be seen.

8. Pour the solution into a bag.

Put a small amount of the solution into a bag. The DNA will be released. The DNA will be visible as a white, stringy substance. The DNA will be visible as a white, stringy substance.



The *gooey* substance is interesting to students!

Answer Key

Extracting Strawberry DNA

1. List the steps of the procedure in their correct order.

STEP

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

A

- A. _____
- B. _____
- C. _____
- D. _____
- E. _____

A Fun Hands-on Activity!

2. What was the purpose of the detergent?

The detergent is to break down the cell walls of the strawberry cells. The detergent will break down the cell walls, and the DNA will be released. The DNA will be visible as a white, stringy substance.

3. Explain what happened after you added strawberry extract.

The strawberry juice was added to the solution. The DNA will be released. The DNA will be visible as a white, stringy substance.

The DNA will be visible as a white, stringy substance. The DNA will be visible as a white, stringy substance.

The DNA will be visible as a white, stringy substance. The DNA will be visible as a white, stringy substance.

4. Why do scientists extract DNA from organisms?

To study the genetic material of the organism. The DNA will be visible as a white, stringy substance.

The DNA will be visible as a white, stringy substance. The DNA will be visible as a white, stringy substance.



Strawberry Dna Extraction Lab Questions

J. Thomas McClintock



Strawberry Dna Extraction Lab Questions:

100 Brain-Friendly Lessons for Unforgettable Teaching and Learning (9-12) Marcia L. Tate, 2019-07-24 Use research and brain based teaching to engage students and maximize learning Lessons should be memorable and engaging When they are student achievement increases behavior problems decrease and teaching and learning are fun In 100 Brain Friendly Lessons for Unforgettable Teaching and Learning 9 12 best selling author and renowned educator and consultant Marcia Tate takes her bestselling Worksheets Don t Grow Dendrites one step further by providing teachers with ready to use lesson plans that take advantage of the way that students really learn Readers will find 100 cross curricular sample lessons from each of the eight major content areas Earth Science Life Science Physical Science English Finance Algebra Geometry Social Studies Plans designed around the most frequently taught objectives found in national and international curricula Lessons educators can immediately replicate in their own classrooms or use to develop their own 20 brain compatible research based instructional strategies that work for all learners Five questions that high school teachers should ask and answer when planning brain compatible lessons and an in depth explanation of each of the questions Guidance on building relationships with students that enable them to learn at optimal levels It is a wonderful time to be a high school teacher This hands on resource will show you how to use what we know about educational neuroscience to transform your classroom into a place where success is accessible for all

The Basics of Investigating Forensic Science Kathy Mirakovits, Gina Londino, 2017-08-02 Once confined to four year colleges and graduate schools forensic science classes can now be found in local high schools as well as in two year community colleges The Basics of Investigating Forensic Science A Laboratory Manual is designed for the beginning forensic science student and for instructors who wish to provide a solid foundation in forensic science

The Use of Food in Chemistry Experiments to Engage and Enrich the Teaching in the Classroom Brian Michael Topping, 2010

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Handbook of Research on Science Literacy Integration in

Classroom Environments Tai, Chih-Che, Moran, Renee M. R., Robertson, Laura, Keith, Karin, Hong, Huili, 2018-10-12

Secondary schools are continually faced with the task of preparing students for a world that is more connected advanced and globalized than ever before In order to adequately prepare students for their future educators must provide them with strong reading and writing skills as well as the ability to understand scientific concepts The Handbook of Research on Science Literacy Integration in Classroom Environments is a pivotal reference source that provides vital research on the importance of cross curriculum discipline connections in improving student understanding and education While highlighting topics such as curriculum integration online learning and instructional coaching this publication explores practices in teaching students how to analyze and interpret data as well as reading writing and speaking This book is ideally designed for teachers graduate level students academicians instructional designers administrators and education researchers seeking current research on science literacy adoption in contemporary classrooms

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

Forensic DNA Biology Kelly M. Elkins, 2013 DNA typing has revolutionized criminal investigations and has become a powerful tool in the identification of individuals in criminal and paternity cases Forensic DNA Biology A Laboratory Manual is comprised of up to date and practical experiments and step by step instructions on how to perform DNA analysis including pipetting microscopy and hair analysis presumptive testing of body fluids and human DNA typing Modern DNA typing techniques are provided reflecting real life where not all institutions and crime labs can afford the same equipment and software Real case studies will be used throughout and the author will provide an Instructor Manual and PowerPoint lecture slides Provides practical step by step instruction on how to perform forensic DNA analysis Includes analysis of hair presumptive testing of body fluids human DNA typing and statistics Covers techniques such as pipetting microscopy and DNA extraction Pre and post lab exercises and questions assist the reader in learning the material Report writing templates assure the reader learns real world crime lab procedure

Forensic DNA Analysis J. Thomas McClintock, 2008-02-19 In its short but active history the use of DNA typing has revolutionized criminal investigations It is almost inconceivable to bring a case to trial without positive identification through what is now our most accurate means Proficiency with the methodology principles and interpretation of DNA evidence is crucial for today s criminalist An introductory text Forensic DNA Analysis A Laboratory Manual presents a contextual history and overview of the science and use of DNA typing Logically organized with clear concise language this manual provides a fundamental understanding of forensic DNA analysis and a thorough background in the molecular techniques used to determine an individual s identity Students are provided with a sound working knowledge of the investigative methodology scientific principles and the analysis and interpretation of the resulting data After laying a

foundation on the rules of the laboratory the basic scientific principles and the types of biological materials such as hair blood and bone this practical hands on manual provides 12 exercises outlining techniques commonly used in DNA typing Designed to be performed in a common laboratory the experiments cover DNA extraction concentration and assessment DNA analysis using restriction fragment length polymorphisms polymerase chain reaction and PCR based typing tests short tandem repeat analysis and mitochondrial DNA analysis Many of the procedures described have been adapted from methods used in federal state and private forensic laboratories and are suitable to a wide range of applications There is also an extensive glossary for DNA typing terminology and basic terms used in molecular biology Instilling confidence analytical clarity and a sense of curiosity this comprehensive introduction is the perfect tool for grasping the techniques and applications of forensic DNA analysis and exploring the questions and issues involved in forensic science investigations

DNA Analysis and Interpretation Vina Devi, Prof. (Dr.) Jaskaran Singh, Dr. Bikramjit Singh, 2025-04-21 **Study of Microtip-based Extraction and Purification of DNA from Human Samples for Portable Devices** Gareth Fotouhi, 2015

DNA sample preparation is essential for genetic analysis However rapid and easy to use methods are a major challenge to obtaining genetic information Furthermore DNA sample preparation technology must follow the growing need for point of care POC diagnostics The current use of centrifuges large robots and laboratory intensive protocols has to be minimized to meet the global challenge of limited access healthcare by bringing the lab to patients through POC devices To address these challenges a novel extraction method of genomic DNA from human samples is presented by using heat cured polyethyleneimine coated microtips generating a high electric field The microtip extraction method is based on recent work using an electric field and capillary action integrated into an automated device The main challenges to the method are 1 to obtain a stable microtip surface for the controlled capture and release of DNA and 2 to improve the recovery of DNA from samples with a high concentration of inhibitors such as human samples The present study addresses these challenges by investigating the heat curing of polyethyleneimine PEI coated on the surface of the microtip Heat cured PEI coated microtips are shown to control the capture and release of DNA Protocols are developed for the extraction and purification of DNA from human samples Heat cured PEI coated microtip methods of DNA sample preparation are used to extract genomic DNA from human samples It is discovered through experiment that heat curing of a PEI layer on a gold coated surface below 150 C could inhibit the signal of polymerase chain reaction PCR Below 150 C the PEI layer is not completely cured and dissolved off the gold coated surface Dissolved PEI binds with DNA to inhibit PCR Heat curing of a PEI layer above 150 C on a gold coated surface prevents inhibition to PCR and gel electrophoresis In comparison to gold coated microtips the 225 C cured PEI coated microtips improve the recovery of DNA to 45% efficiency Furthermore the 225 C cured PEI coated microtips recover more DNA than gold coated microtips when the surface is washed Heat cured 225 C PEI coated microtips are used for the recovery of human genomic DNA from whole blood A washing protocol is developed to remove inhibiting particles bound to

the PEI coated microtip surface after DNA extraction From 1 25 scientific symbol L of whole blood an average of 1 83 ng of human genomic DNA is captured purified and released using a 225 C cured PEI coated microtip in less than 30 minutes The extracted DNA is profiled by short tandem repeat analysis STR For forensic and medical applications genomic DNA is extracted from dried samples using heat cured PEI coated microtips that are integrated into an automated device DNA extraction from dried samples is critical for forensics The use of dried samples in the medical field is increasing because dried samples are convenient for storage biosafety and contamination The main challenge is the time required to properly extract DNA in a purified form Typically a 1 hour incubation period is required to complete this process Overnight incubation is sometimes necessary To address this challenge a pre extraction washing step is investigated to remove inhibiting particles from dried blood spots DBS before DNA is released from dried form into solution for microtip extraction The developed protocol is expanded to extract DNA from a variety of dried samples including nasal swabs buccal swabs and other forensic samples In comparison to a commercial kit the microtip based extraction reduced the processing time from 1 5 hours to 30 minutes or less with an equivalent concentration of extracted DNA from dried blood spots The developed assay will benefit genetic studies on newborn screening forensic investigation and POC diagnostics

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to a pack whenever you dream of dogs large dogs or small dogs make sure to remember the surroundings in the dream in some other religions for example hindu dogs in dreams symbolize honesty faith and service and

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