

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 for students to work in groups. Students will use detergent to break down the cell walls of the strawberry cells. The detergent will break down the cell walls of the strawberry cells. The detergent will break down the cell walls of the strawberry cells.

Complete Procedure

Strawberry DNA Lab

Lab Setup

4 of Detergent Rubies

Substance	Volume
Strawberry Juice	100 mL
Detergent	10 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.

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 strawberries.
- 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 solution into the bag. Pour the solution into the bag.



6. Pour the solution into a bag.

Put a small amount of water in the bag. The strawberries will break down the cell walls of the strawberry cells. The strawberries will break down the cell walls of the strawberry cells.



Includes Activity Worksheets

7. Pour the solution into a bag.

Put a small amount of water in the bag. The strawberries will break down the cell walls of the strawberry cells. The strawberries will break down the cell walls of the strawberry cells.



The DNA is visible in the solution. As the solution is poured, the DNA is visible and can be seen.

8. Pour the solution into a bag.

Put a small amount of water in the bag. The strawberries will break down the cell walls of the strawberry cells. The strawberries will break down the cell walls of the strawberry cells.



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. F

B. A

C. A

D. C

E. C

F. F

G. F

H. F

I. F

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 is to break down the cell walls of the strawberry cells.

3. Explain what happened after you added strawberry extract.

The strawberries will break down the cell walls of the strawberry cells. The strawberries will break down the cell walls of the strawberry cells.

The strawberries will break down the cell walls of the strawberry cells. The strawberries will break down the cell walls of the strawberry cells.

The strawberries will break down the cell walls of the strawberry cells. The strawberries will break down the cell walls of the strawberry cells.

4. Why do scientists extract DNA from organisms?

To study the genetic material of the organism. To study the genetic material of the organism.

To study the genetic material of the organism. To study the genetic material of the organism.



Strawberry Dna Extraction Lab Questions

Kathy Mirakovits, Gina Londino-Smolar

A red circular graphic with a gradient, appearing as a partial circle or a thick arrow pointing to the right, located to the right of the author names.

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-Smolar, 2021-07-15 The Basics of Investigating Forensic Science A Laboratory Manual Second Edition presents foundational concepts in forensic science through hands on laboratory techniques and engaging exercises The text offers numerous lab projects on a range of subjects including fingerprinting shoeprint analysis firearms pathology anthropology forensic biology and DNA drugs trace evidence analysis and more This Second Edition is fully updated to include extensive full color photos and diagrams to reflect current best practices focussing on laboratory procedure techniques and interpretation of results Each laboratory illustrates processes and concepts and how the equipment should be set up for a given exercise Many of the exercises can be done with minimal laboratory equipment and material while certain exercises also have additional options and advanced lab exercises for those education institutions with access to more specialized or advance laboratory equipment While the sequencing of laboratory exercises in the book is designed to follow The Basics textbook the lab exercises are intentionally modular can be performed in any sequence desired by an instructor The Basics of Investigating Forensic Science Second Edition is an excellent resource for introduction to forensic sciences courses including the companion textbook it was designed to accompany Forensic Science The Basics Fourth Edition ISBN 9780367251499 The book can be used alongside any textbook and even serve as a stand alone text for two and four year college programs as well as course at the high school level

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

Introduction to Biology National Agricultural Institute,2014-08-27 Introduction to Biology is one in a series of Just The Facts JTF textbooks created by the National Agricultural Institute for secondary and postsecondary programs in biology agriculture food and natural resources AFNR This is a bold new approach to textbooks The textbook presents the essential knowledge of introductory biology in outline format This essential knowledge is supported by a main concept learning objectives and key terms at the beginning of each section references and a short assessment at the end of each section Content of the book is further enhanced for student learning by connecting with complementary PowerPoint presentations and websites through QR codes scanned by smart phones or tablets or URLs The textbook is available in print and electronic formats To purchase electronic copies inquire at info.national.ag.institute.org

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

Deoxyribose Nucleic Acid (DNA) Extraction , Deoxyribose Nucleic Acid DNA Extraction is a biology lesson that was presented by Mary Davidson at the 1991 Woodrow Wilson Biology Institute This lesson is suitable for middle or high school classes The lesson consists of an experiment that allows the students to practice extracting bacterial DNA from Escherichia coli cells Davidson lists the materials needed and highlights the procedures for the experiment The Woodrow Wilson National Fellowship Foundation in Princeton New Jersey provides the lesson online

Strawberry Dna Extraction Lab Questions Book Review: Unveiling the Power of Words

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