

## Gel Electrophoresis Virtual Lab Worksheet

### Instructions

Go to the following link and complete the gel electrophoresis virtual lab:

[https://www.classzone.com/books/hs/ca/sc/bio\\_07/virtual\\_labs/virtualLabs.html](https://www.classzone.com/books/hs/ca/sc/bio_07/virtual_labs/virtualLabs.html)

Select "Gel Electrophoresis" from the list and start the virtual lab.

The lab is based on using gel electrophoresis for DNA fingerprinting. In our lesson, we discussed using gel electrophoresis for nanotechnology, specifically determining if the PEG molecule has been attached to the quantum dot. Even though this lab presents a different application for gel electrophoresis, the lab helps you to understand how this method works!

### Questions

1. Gel electrophoresis a technique used for separating molecules, such as DNA strands and proteins, according to their lengths.
2. What is the purpose of the power supply? The power supply is used to produce an electric current in the electrophoresis chamber.
3. The TBE buffer solution is used to help carry an electric current.
4. Shorter strands of DNA travel more easily and over time, farther on the agarose gel than do larger strands.
5. Once an electric current is applied, notice that the negative electrode is closest to the wells, and the positive electrode is farthest from the wells.
6. Which suspect is the victim? Suspect 2.  
How do you know? Suspect 2's DNA matches the evidence DNA.
7. Do you think you would find the largest or the smallest fragment of DNA closest to the well? Explain. The largest fragment will be found closest to the well where it began because it will move slower than the smaller fragments, which can move through the gel easier.

# Gel Electrophoresis Virtual Lab Answer Sheet

**ML Yell**



## **Gel Electrophoresis Virtual Lab Answer Sheet:**

Making Dinosaurs Dance Barry Joseph, 2023-01-30 *Making Dinosaurs Dance A Toolkit for Digital Design in Museums* takes the reader behind the scenes to learn how the American Museum of Natural History innovates visitor digital engagement highlighting design techniques used both there and at museums around the world Based on the author's six years at the landmark institution that inspired the Night at the Museum franchise the book introduces The Six Tools of Digital Design user research rapid prototyping public piloting iterative design youth collaboration and teaming up then applies them through case studies across a range of topics Combining digital experience design with physical museum assets in a guided format featuring Crime Scene Neanderthal CSN a youth co designed and facilitated in Hall experience that invited museum visitors to use a mobile app and other tools to investigate a science based mystery Game based learning featuring three case a tabletop games Pterosaurs The Card Game mobile games Playing with Dinos and commercial off the shelf games Minecraft Mobile augmented reality games featuring MicroRangers which used AR to invite visitors to shrink to microscopic size and explore the Museum to combat threats to global biodiversity XR experience design featuring case studies about 360 videos on paleontology and virtual reality projects about ocean life Science visualizations featuring Galactic Golf an astro visualization that addressed the topics of mass and gravity through a round of mixed reality Martian golf interactive science visualizations that invited visitors to hold CT scans of bat skulls in their hand and Finding Flamingos a youth program focused on how Conservation Biologists protect endangered flamingos through GIS mapping and predictions software In addition the book explores related topics at institutions in Greece and France and from Washington D C to California

Essential Biology Chapter 12 Campbell, Reece, 2003 *Essential Biology* Neil A. Campbell, Jane B. Reece, Eric Jeffrey Simon, 2004 Student CD ROM includes Activities process of sciences quizzes flashcards glossary *Transactions* Biochemical Society (Great Britain), 1999 **Cumulated Index Medicus**, 1997 **The American Biology Teacher**, 2006 *Index Medicus*, 2002 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings Commerce Business Daily, 1997-12-31 **Veterinary Clinical Pathology**, 2006 *Chemical Abstracts*, 1990 **The Scientist**, 1997-07 Government Reports Announcements & Index, 1994 *Science Citation Index*, 1993 Vols for 1964 have guides and journal lists Pandex Current Index to Scientific and Technical Literature, 1969 *Gel Electrophoresis* D. M. Gersten, 1996-08-06 This book provides clear detailed descriptions of the most widely used protein electrophoresis techniques using numbered step by step instructions Handy tips such as convenient stopping points are also included *Gel Electrophoresis* Douglas Gersten, 1996 **Electrophoresis in Practice** Reiner Westermeier, 2016-03-16 This fifth edition of the successful long selling classic has been completely revised and expanded omitting some topics on obsolete DNA electrophoresis but now with a completely new section on electrophoretic micro methods and on the chip electrophoresis The text is geared towards advanced students and professionals and contains extended background sections protocols and a

trouble shooting section It is now also backed by a supplementary website providing all the figures for teaching purposes as well as a selection of animated figures tested in many workshops to explain the underlying principles of the different electrophoretic methods

**Gel Electrophoresis** Gilbert H. Mitchell,2017 Polyacrylamide gel electrophoresis PAGE is performed routinely in research and diagnostics The lack of internal standards however has been very disadvantageous for PAGE methodologies in comparison to alternative separation techniques like chromatography Chapter one discusses how comparative fluorescence gel electrophoresis CoFGE has the potential to change this situation Chapter Two focuses on elucidating the properties of polyacrylamide gel matrixes discussing the essential principles of discontinuous PAGE in technology and summarising the discontinuous buffer systems employed for the discontinuous PAGE in alkaline neutral and acidic circumstances Chapter Three discusses the need for the establishment of typical physiologic protein pattern for various avian patients Chapter Four discusses constant field gel electrophoresis a sensitive rapid economical and perspective method for detecting DNA double strand breaks and rejoining with high resolution

**Difference Gel Electrophoresis** Kay Ohlendieck,2018-08-22 This volume provides a comprehensive study of this key method of gel based proteomics Chapters in Difference Gel Electrophoresis Methods and Protocols detail methods on principles of differential protein labeling two dimensional gel electrophoresis techniques on optimized proteomic workflows advanced mass spectrometry for protein identification application of basic biological research and applied biomarker discovery Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Difference Gel Electrophoresis Methods and Protocols aims to ensure successful results in the further study of this vital field

**Gel Electrophoresis** Gilbert H. Mitchell,2017 Polyacrylamide gel electrophoresis PAGE is performed routinely in research and diagnostics The lack of internal standards however has been very disadvantageous for PAGE methodologies in comparison to alternative separation techniques like chromatography Chapter one discusses how comparative fluorescence gel electrophoresis CoFGE has the potential to change this situation Chapter Two focuses on elucidating the properties of polyacrylamide gel matrixes discussing the essential principles of discontinuous PAGE in technology and summarizing the discontinuous buffer systems employed for the discontinuous PAGE in alkaline neutral and acidic circumstances Chapter Three discusses the need for the establishment of typical physiologic protein pattern for various avian patients Chapter Four discusses constant field gel electrophoresis a sensitive rapid economical and perspective method for detecting DNA double strand breaks and rejoining with high resolution

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The Ruby Knight (Book Two of the Elenium): David Eddings The Elenium series, which began in Diamond Throne, continues against a background of magic and adventure. Ehlana, Queen of Elenia, had been poisoned. The Ruby Knight (The Elenium,

#2) by David Eddings The Ruby Knight is the second book in the Elenium and follows Sparhawk on the quest to obtain the magical artefact known as the Bhellium in order to save ... The Ruby Knight (Book Two of The Elenium): Eddings, David Sparhawk, Pandion Knight and Queen's Champion, returns home to find young Queen Ehlana in terrible jeopardy, and soon embarks on a quest to find the one ... The Elenium Book Series - ThriftBooks by David Eddings includes books The Diamond Throne, The Ruby Knight, The Sapphire Rose, and several more. See the complete The Elenium series book list in ... The Ruby Knight (Book Two Of The Elenium) The Ruby Knight (Book Two Of The Elenium). By: David Eddings. Price: \$9.95. Quantity: 1 available. THE RUBY KNIGHT Book Two Of The Elenium THE RUBY KNIGHT Book Two Of The Elenium. New York: Ballantine Books / Del Rey, 1990. First Edition; First Printing. Hardcover. Item #50179. ISBN: 0345370430 The Elenium - Wikipedia The Elenium is a series of fantasy novels by American writer David Eddings. The series consists of three volumes: The Diamond Throne, The Ruby Knight, ... The Ruby Knight. Book Two of The Elenium. - AbeBooks AbeBooks.com: The Ruby Knight. Book Two of The Elenium.: ISBN 0-345-37043-0 Black boards, black cloth spine with red lettering, 406 pages, clean, tight, ... The Ruby Knight: Book Two of The Elenium | David Eddings The Ruby Knight: Book Two of The Elenium. New York: A Del Rey Book Ballantine Books, 1991. First Edition. Hardcover. Item #10097. ISBN: 0345370430 The Ruby Knight (Book Two of the Elenium) - Moon Dragon The Elenium series, which began in Diamond Throne, continues against a background of magic and adventure. Ehlana, Queen of Elenia, had been poisoned. Windows jeannie baker ... Window Jeannie Baker - Complete English Unit ... You can find more geography lesson plans, worksheets, activities and other teaching resources ... Window by Jeannie Baker Lesson Plan Have you ever read a book with no words? In this lesson, we will look at the book, 'Window,' by Jeannie Baker. The book has no words which gives... 35 Top "Window Jeannie Baker" Teaching Resources ... - Twinkl 35 Top "Window Jeannie Baker" Teaching Resources curated for you. ; Landscape Changes Read and Draw Worksheet · (10 reviews) ; Window Frame Drawing Sheet · (4 ... The iconic wordless picture book, Window by Jeannie ... The iconic wordless picture book, Window by Jeannie Baker, is perfect for use in KS1 or KS2 to inspire discussion and descriptive writing. TEACHER NOTES Jeannie Baker's artwork presents a very hopeful view of the future. Create ... Get students to look out of a window in their home, and write down and. Jeannie Baker - Visual Literacy through Picture Books May 4, 2020 — Teaching Resources · Picture reveal activity from TES Connect · Activities written by Joanne Coghlan · xploring and responding · Art Practice. EXPLORING AND RESPONDING - Jeannie Baker The required resources are: Window by Jeannie Baker, 'The Artistic Work of Jeannie Baker' worksheet, pencils; grey lead and coloured, crayons, textas, etc. Window Jeannie Baker - Complete English Unit Stage 2 - ... Jul 16, 2023 — This is a HUGE 77-page complete English unit based on the amazing book "Window" by Jeannie Baker. This is a unit of work I created to ... Window by Jeannie Baker | Teaching Resources Sep 23, 2017 — The objective of the lesson is to create a scene outside the window. Suggestions include drawing a scene of your own choice or drawing a scene ... Nesta Mma Conditioning Association Test Answers Pdf Nesta Mma

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