

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

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 is 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

Barry Joseph

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Barry Joseph.

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

The Enigmatic Realm of **Gel Electrophoresis Virtual Lab Answer Sheet**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Gel Electrophoresis Virtual Lab Answer Sheet** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

<http://www.technicalcoatingsystems.ca/About/detail/default.aspx/oxford%20english%20for%20careers%20technology%20%20technology%20%20.pdf>

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