

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 Lab Report Answers

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Infrastructure. Subcommittee on
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Gel Electrophoresis Lab Report Answers:

Molecular Microbiology Laboratory Walt Ream, 2003-02-12 A writing intensive manual appropriate for college sophomores through seniors in any of the life sciences

Methods in Biotechnology Seung-Beom Hong, M. Bazlur Rashid, Lory Z. Santiago-Vázquez, 2016-08-01 As rapid advances in biotechnology occur there is a need for a pedagogical tool to aid current students and laboratory professionals in biotechnological methods *Methods in Biotechnology* is an invaluable resource for those students and professionals *Methods in Biotechnology* engages the reader by implementing an active learning approach provided advanced study questions as well as pre and post lab questions for each lab protocol These self directed study sections encourage the reader to not just perform experiments but to engage with the material on a higher level utilizing critical thinking and troubleshooting skills This text is broken into three sections based on level *Methods in Biotechnology* *Advanced Methods in Biotechnology I* and *Advanced Methods in Biotechnology II* Each section contains 14 22 lab exercises with instructor notes in appendices as well as an answer guide as a part of the book companion site This text will be an excellent resource for both students and laboratory professionals in the biotechnology field

Microns Microbiology Simplified Question-Answer Mr. Rohit Manglik, 2024-07-30 A simplified and concise microbiology resource presented in question answer format for easy understanding and revision

Food Polysaccharides and Their Applications Alistair M. Stephen, Glyn O. Phillips, 2016-04-19 Comprehensive in scope *Food Polysaccharides and Their Applications* Second Edition explains the production aspects and the chemical and physical properties of the main classes of polysaccharides consumed as food highlighting their nutritional value and their technological characteristics Chapters in this new edition detail the source

Biochemistry Laboratory Manual Mr. Rohit Manglik, 2024-07-30 Hands on manual with detailed protocols and experiments for conducting fundamental and advanced biochemistry lab work

Scientific and Technical Aerospace Reports, 1992-03

Energy Research Abstracts, 1993

Biochemistry Laboratory Manual For Undergraduates Timea Gerczei Fernandez, Scott Pattison, 2015-03-11 Biochemistry laboratory manual for undergraduates an inquiry based approach by Gerczei and Pattison is the first textbook on the market that uses a highly relevant model antibiotic resistance to teach seminal topics of biochemistry and molecular biology while incorporating the blossoming field of bioinformatics The novelty of this manual is the incorporation of a student driven real life research project into the undergraduate curriculum Since students test their own mutant design even the most experienced students remain engaged with the process while the less experienced ones get their first taste of biochemistry research Inclusion of a research project does not entail a limitation this manual includes all classic biochemistry techniques such as HPLC or enzyme kinetics and is complete with numerous problem sets relating to each topic

General, Organic, and Biochemistry Lab Manual Sara Selfe, 2006-01-12 Offers a choice of classic chemistry experiments and innovative ones All of them place special emphasis on the biological implications of chemical concepts Available for custom publishing at <http://custompub.whfreeman.com>

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volume production and of high economic importance Each class of nanomaterials discussed includes information on what scientists industry regulatory agencies and the general public need to know about nanosafety This book written by leading international experts in nanotoxicology and nanomedicine gives a comprehensive view of the health impact of ENM focusing on their potential adverse effects in exposed workers consumers and patients The beneficial applications both diagnostic and therapeutic of ENM are also highlighted This book fills an important need in terms of bridging the gap between experimental findings and human exposure to ENM and the clinical and pathological consequences of such exposure in the human population Multi authored book written by leading US and European experts on nanotoxicology and nanomedicine Discusses the health implications and a clinical translation of experimental data in this area Takes a schematic non exhaustive approach to summarize the most important research data in this field Includes a glossary with a brief explanation of the term and with a reference to where the term or phrase has been used will be included within the book **Essential Biology** Neil A. Campbell, Jane B. Reece, Eric Jeffrey Simon, 2004 Student CD ROM includes Activities process of sciences quizzes flashcards glossary **Asian Carp and the Great Lakes** United States. Congress. House. Committee on Transportation and Infrastructure. Subcommittee on Water Resources and Environment, 2010 *Challenges of the Unseen World* Richard J. Meyer, Stacie A. Brown, 2018-04-01 Solving real world health challenges in a learning environment You are at an exciting gateway into the world of microorganisms With nothing more than basic lab equipment such as microscopes Petri dishes media and a handful of reagents you will learn to isolate grow and identify bacteria that live all around us This is no ordinary microbiology laboratory course not only will you learn how to streak plates use a microscope perform a Gram stain and prepare serial dilutions and spread plates fundamental skills found in every microbiologist s toolkit you will solve a series of public health related challenges that many professional microbiologists encounter in their work By the end of this course you will Determine the origin of a nosocomial infection Using foundational and molecular methods you will determine whether the infections occurring in hospitalized patients are the result of contaminated medical items Select the antibiotic to treat a patient with Crohn s disease You will find minimum inhibitory concentrations of various antibiotics for a Pseudomonas strain associated with Crohn s disease Pinpoint the source of lettuce contaminated with E coli Using molecular tools you will investigate a common food safety challenge antibiotic resistant E coli and the potential for spread of this resistance in the environment Find the farm releasing pathogens into a stream used for drinking water Using bacteriophage load in water samples you will locate the source of fecal contamination in the water supply of a village in an underdeveloped country Evaluate the potential of bacteria to cause a urinary tract infection You will test for biofilms quorum sensing behavior and chemotaxis and assess which disinfectants would be most effective for sanitizing contaminated surfaces Microbiology educators and researchers Richard Meyer and Stacie Brown have created this hands on engaging introduction to the essential laboratory skills in the microbial sciences that is sure to change the way you view the world around you

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clive campbell born april 16 1955 better known by his stage name dj kool herc is a jamaican american dj who is a pioneer of hip hop music in the bronx new york city in the 1970s nicknamed the father of hip hop campbell began playing hard funk records of the sort typified by james brown campbell began to isolate the instrumental portion of the record which empha

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