

## Gel Electrophoresis Virtual Lab Worksheet

### Instructions

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

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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

**Kay Ohlendieck**



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

*Labster Virtual Lab Experiments: Genetics of Human Diseases* Aaron Gardner, Sarah Stauffer, Lindsay Petley-Ragan, Philip Wismer, Dewi Ayu Kencana Ungu, 2019-04-01 This textbook helps you to prepare for your next exams and practical courses by combining theory with virtual lab simulations The Labster Virtual Lab Experiments series gives you a unique opportunity to apply your newly acquired knowledge in a learning game that simulates exciting laboratory experiments Try out different techniques and work with machines that you otherwise wouldn't have access to In this book you'll learn the fundamental concepts of the genetics of human diseases focusing on Monogenic Disorders Cytogenetics Medical Genetics Viral Gene Therapy In each chapter you'll be introduced to one virtual lab simulation and a true to life challenge Following a theory section you'll be able to play the relevant simulation that includes quiz questions to reinforce your understanding of the covered topics 3D animations will show you molecular processes not otherwise visible to the human eye If you have purchased a printed copy of this book you get free access to five simulations for the duration of six months If you're using the e-book version you can sign up and buy access to the simulations at [www.labster.com](http://www.labster.com) springer If you like this book try out other topics in this series including Basic Biology Basic Genetics and Basic Biochemistry Please note that the simulations included in the book are not virtual reality VR but 2D virtual experiments

**Science Sleuths** Howard Schindler, Dennis J. Mucenski, 2021-10-17 Building on the growing public interest in forensics the three cases featured in *Science Sleuths Solving Mysteries Using Scientific Inquiry* merge science and literacy requiring students to be critical and active readers as they conduct their investigation Beginning with an evaluation of the crime scene photos the student investigators will analyze lab reports phone messages and interviews to extract key information Students will sort through the evidence to formulate their initial hypothesis being alert to red herrings as they work to identify the person responsible for each crime Students are given additional sets of information as they make their way through the case requiring them to reformulate their initial hypothesis until they arrive at a final conclusion The student's final write-up consists of a chart explaining the means motive and opportunity for each of the suspects in addition to a thorough analysis of the evidence and a recreation of the case Eventually students are able to determine which suspect should be charged with the crime Students will solve fun mysteries using science skills sort through evidence to develop hypotheses and use critical thinking to identify the suspect Grades 6-9

**The American Biology Teacher**, 2007 **The Science Teacher**, 2007 SCC Library has 1964 cur **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

**Gel Electrophoresis** Sameh Magdeldin, 2012-04-04 Most will agree that gel electrophoresis is one of the basic pillars of molecular biology This coined terminology covers a myriad of gel-based separation approaches that rely mainly on fractionating biomolecules under electrophoretic current based mainly on the molecular weight In this book the authors try to present simplified fundamentals

of gel based separation together with exemplarily applications of this versatile technique We try to keep the contents of the book crisp and comprehensive and hope that it will receive overwhelming interest and deliver benefits and valuable information to the readers

**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

**Pulsed Field Gel Electrophoresis** Bruce Birren,Eric Lai,2012-12-02 Pulsed Field Gel Electrophoresis A Practical Guide is the first laboratory manual to describe the theory and practice of this technique Based on the authors experience developing pulsed field gel instruments and teaching procedures this book provides everything a researcher or student needs to know in order to understand and carry out pulsed field gel experiments Clear well tested protocols assume only that users have a basic familiarity with molecular biology Thorough coverage of useful data theory and applications ensures that this book is also a lasting resource for more advanced practitioners of pulsed field gels Reviews all types of pulsed field gel electrophoresis Describes all commercially available systems and summarizes advantages and limitations of each Includes step by step protocols for sample preparation and analysis Illustrated with photographs that depict How to run gels What the results should look like What they look like when they go wrong Covers applications to a wide range of organisms Includes bibliography of over 900 publications and cross referenced by topic application and organism

**Gel Electrophoresis** Douglas Gersten,1996 *Difference Gel Electrophoresis* Kay Ohlendieck,2022-11-15 The second edition of this volume provides a comprehensive update of this key method on gel based proteomics Chapters present an introduction into the development of methods on principles of differential protein labeling and two dimensional gel electrophoresis techniques on optimized proteomic workflows using advanced mass spectrometry for protein identification and the application of those methods in basic biological research pathobiology 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* Second Edition aims to ensure successful results in the further study of this vital field

**Gel Electrophoresis of Proteins** B. D. Hames,1998-10-01 This new edition of *Gel Electrophoresis of Proteins* is a completely new text with eight of the ten chapters written by new authors It presents the best methods hints and tips for core procedures such as one dimensional polyacrylamide gel electrophoresis isoelectric focusing two dimensional gel electrophoresis preparative gel electrophoresis and peptide mapping complete with the latest refinements and updates of the procedures In addition it describes major new techniques which have come to the fore since the previous edition Thus there are chapters on capillary gel electrophoresis sequence analysis of gel resolved proteins fluorophore labelled saccharide electrophoresis and analysis of protein protein interactions by gel electrophoresis One thing has not changed The emphasis is

still on describing the best methods in step by step detail with copious advice to ensure that each method works first time in the reader s hands The first two editions of Gel Electrophoresis of Proteins A Practical Approach each gained a strong reputation as easy to follow laboratory manuals written by experienced researchers for researchers The methods were presented in a clear accessible format and had been fully tested to ensure success in the lab This new edition will strengthen the reputation of the book still further It is a must have for all those who currently use gel electrophoresis or who plan to do so

**Difference Gel Electrophoresis (DIGE)** Rainer Cramer,Reiner Westermeier,2016-08-23 Protein analysis is increasingly becoming a cornerstone in deciphering the molecular mechanisms of life Proteomics the large scale and high sensitivity analysis of proteins is already pivotal to the new life sciences such as Systems Biology and Systems Medicine Proteomics however relies heavily on the past and future advances of protein purification and analysis methods DIGE being able to quantify proteins in their intact form is one of a few methods that can facilitate this type of analysis and still provide the protein isoforms in an MS compatible state for further identification and characterization with high analytical sensitivity Differential Gel Electrophoresis Methods and Protocols introduces the concept of DIGE and its advantages in quantitative protein analysis It provides detailed protocols and important notes on the practical aspects of DIGE with both generic and specific applications in the various areas of Quantitative Proteomics Divided into four concise sections this detailed volume opens with the basics of DIGE the technique and its practical details with a focus on the planning of a DIGE experiment and its data analysis The next section introduces various DIGE methods from those employed by scientists world wide to more novel methods providing a glance at what is on the horizon in the DIGE world The volume closes with an overview of the wide range of DIGE applications from Clinical Proteomics to Animal Plant and Microbial Proteomics applications Written in the highly successful Methods in Molecular Biology™ series format chapters contain introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and notes on troubleshooting and avoiding known pitfalls Authoritative and accessible Differential Gel Electrophoresis Methods and Protocols can be used by novices with some background in biochemistry or molecular biology as well as by experts in Proteomics who would like to deepen their understanding of DIGE and its employment in many hyphenations and application areas With its many protocols applications and methodological variants it is also a unique reference for all who seek fundamental details on the working principle of DIGE and ideas for possible future uses of DIGE in novel analytical approaches

*Electrophoresis in Practice* Reiner Westermeier,1993 [The Laboratory Guide to Two-Dimensional Gel Electrophoresis](#) Gary Smejkal,Malcolm Pluskal,Kenneth Flynn,2016-01-15 Theoretically capable of separating tens of thousands of proteins two dimensional gel electrophoresis 2DGE is often still regarded as procedurally complex and poorly reproducible An indispensable tool that enables even inexperienced researchers to obtain reliable highly reproducible separations of protein by 2DGE this pocket guide is a valuable resource for detailed protocols professional secrets for

success buffer recipes and troubleshooting guides that reflect the recognized expertise and years of experience of the author Multiple illustrations supplement the step by step instructions and valuable footnotes found on each page provide instant access to supplementary information

*Gel Electrophoresis: Nucleic Acids* Dr Robin Martin, 2020-08-26 Through its clear presentation of the basic concepts Gel Electrophoresis Nucleic Acids breaks new ground by describing the principles of the technique without resorting to complicated protocols and recipes

*Gel Electrophoresis of Proteins* Michael J Dunn, 2014-05-12 Gel Electrophoresis of Proteins focuses on the techniques methodologies reactions and approaches involved in gel electrophoresis of proteins The selection first covers steady state gel electrophoresis systems and one dimensional PAA gel electrophoretic techniques to separate functional and denatured proteins Discussions focus on affinity electrophoresis structure and physico chemical properties of polyacrylamide gels moving boundary electrophoresis isotachopheresis fundamental steady state electrophoresis systems and fundamental properties of steady state electrophoresis systems The text then reviews conventional isoelectric focusing and immobilized pH gradients and high resolution two dimensional polyacrylamide gel electrophoresis Topics include production of narrow pH gradients extended pH gradients polymerization kinetics IEF in agarose matrices titration curves two dimensional electrophoresis under non denaturing conditions and IEF in polyacrylamide matrices The book tackles quantifying patterns from two dimensional PAGE protein staining and detection methods and immunoelectrophoretic methods Concerns include post electrophoretic organic protein stains silver and enzyme stains detection of radioactive proteins and programming languages The selection is highly recommended for researchers wanting to conduct studies on gel electrophoresis of proteins

**Electrophoresis in Practice** Reiner Westermeier, 2006-03-06 This laboratory guide for successful electrophoretic separations is divided into two parts to provide readers with a thorough presentation of the fundamentals followed by a detailed description of the most common methods currently in use This fourth edition retains the successful concept of its predecessors yet features a brand new layout and is further enhanced by a section on difference gel electrophoresis while the chapter on proteome analysis is practically all new and considerably extended plus there are now around 10 % new literature references

**Two-Dimensional Gel Electrophoresis of Proteins** Julio Celis, 2012-12-02 Two Dimensional Gel Electrophoresis of Proteins Methods and Applications reviews current methods and clinical applications of two dimensional gel electrophoresis of proteins including the QUEST system silver staining and peptide mapping Two dimensional gel electrophoresis are applied to the study of diseases ranging from inborn errors of metabolism to human germ line mutation rates cancer and mistranslation in animal and bacterial cells This volume is organized into three sections encompassing 14 chapters and begins with an overview of the methodology of two dimensional gel electrophoresis followed by a discussion of computerized two dimensional gel electrophoresis silver staining immunoblotting and one and two dimensional peptide mapping In most cases a step by step guide to the techniques is given so that procedures may be easily repeated A catalog of mouse fibroblast

proteins is also given The chapters that follow focus mainly on applications of two dimensional gel electrophoresis in areas such as clinical and cancer research human genetics protein biosynthesis and gene expression in plants The final section presents current protein catalogs of Escherichia coli and human HeLa cells This book is suitable for young researchers as well as for senior scientists working with a wide variety of problems in molecular and cell biology basic biochemistry genetics and clinical research

Pulsed-Field Gel Electrophoresis Margit Burmeister, Levy Ulanovsky, 2008-02-02 Presents step by step protocols for users of Pulsed Field Gel Electrophoresis PFGE whether novice or expert This book features a wide range of PFGE techniques auxiliary methods and a diverse array of powerful applications It includes protocols designed to work even the first time they are used

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