

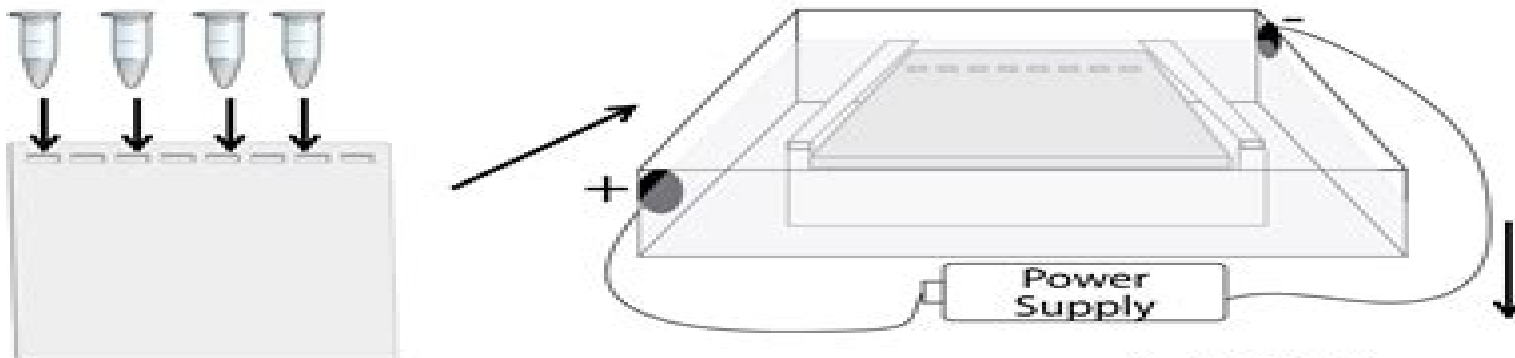
Name: _____ Class: _____ Date: _____

Gel Electrophoresis is useful in identifying the size of an unknown DNA fragment. Scientists compare unknown DNA samples to a control sample called a **marker sample** or a "**ladder**". The ladder sample contains several known lengths of DNA.

In the example below, the ladder contains known fragments of DNA with lengths 100, 300, 500, 800, 1000, and 2000 base pairs long.

Wells/Lanes #	1	3	5	7
Ladder	?	?	?	?

Gel Electrophoresis Chamber for Approximately 30 Minutes

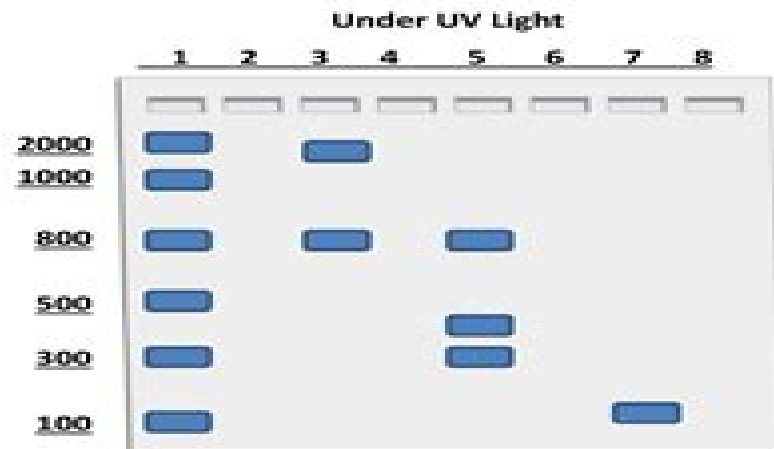


Because we know the ladder's standard fragment size, we can use this to estimate the unknown fragments in lanes 3, 5, and 7.

In Lane 3, there are at least 2 different fragments: one has a length of between 1000 and 2000 bp. One has a length close to 800 bp.

In Lane 5, there are at least 3 different DNA fragments. One is about 800 bp, one is between 300 and 500 (estimate 400), and one is about 300 bp.

In Lane 7, there is at least 1 fragment that is close to 100 base pairs in length.



It is important to note what DNA gel electrophoresis cannot do. When reading a DNA gel's bands, you cannot know if a sample has 2 or more different fragments of the same length. In the gel above, lane 7 might have 1, 2, 3, 4, or many different DNA fragments with different sequences of very similar length (around 100 bp). There is no way to distinguish between different DNA fragments with the same length using just DNA gel electrophoresis.

Gel Electrophoresis Worksheet Answers

SJ Ball



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Recombinant DNA and Biotechnology Helen Kreuzer,Adrianne Massey,1996 Laying the foundation An overview of biotechnology Genes genetics and geneticists An overview of molecular of molecular biology recombinant DNA technology Classroom activities DNA structure and function Constructing a paper helix DNA replication From genes to proteins Sizes of the Escherichia coli and human genomes Extraction of bacterial DNA Manipulation and analysis of DNA DNA scissors introduction to restriction enzymes DNA goes to the races Gel electrophoresis of precut lambda DNA Recombinant paper plasmids Restriction analysis challenge worksheets Detection of specific DNA sequences DNA sequencing The polymerase chain reaction paper PCR Transfer of genetic information Trasformation of Escherichia coli Conjugative transfer of antibiotic resistance in Escherichia coli Transduction of an antibiotic resistance gene Agrobacterium tumefaciens nature s plant genetic engineer Analysing genetic variation Generating genetic variation the meiosis game Analysing genetic variation DNA typing A mix up at the hospital A paternity case The case of the bloody knife The molecularbasis of genetic diseases Societal issues Science Technology and society Weighing technology s risks and benefits Debating the risks of biotechnology A decision making model for bioethical issues BBioethics case study gene therapy Bioethics case study genetic screening Careers in biotechnology Appendixes Laboratory biosafety Basis microbiological methods Aseptic technique Sterilization of equipment and media Recipes Biotechnology laboratory equipment Using the equipment Recommended reading Teaching resources National science education standards and the content of this book Templates Overhead masters **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 *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 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

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 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. **Electrophoresis** Budin Michov, 2020-09-07. Electrophoresis is a straightforward but informative analytical method used in biochemistry, biology, and medicine. This book combines a detailed discussion of theory and technical application with an elaborate section on troubleshooting and problem solving in electrophoresis. Therefore, the book is an important guide for both students and scientists. **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** 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. **Pulsed-field Gel Electrophoresis**, 1990. **Gel Electrophoresis** D. Patel, 1994-06-14. Electrophoresis is an indispensable separation technique in biochemistry and cell and molecular biology. This volume provides comprehensive data on gel electrophoresis of proteins, nucleic acids, nucleoproteins, and carbohydrates. **Electrophoresis in Practice** Reiner Westermeier, 1993. *Gel Electrophoresis and Isoelectric Focusing of Proteins* Robert C. Allen, Calvin A. Saravis, H.R. Maurer, 2019-05-20. No detailed description available for Gel Electrophoresis and Isoelectric Focusing of Proteins.

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