

Gel Electrophoresis Virtual Lab Worksheet

Instructions:

Use the three following links and complete the gel electrophoresis virtual lab:

https://www.courses.lamar.edu/biology/lab/001/lab04/lab04_virtual_lab.html

Complete "Gel Electrophoresis" from the lab and submit the virtual lab.

Your lab is graded on using gel electrophoresis, for DNA fingerprinting, for case history, and fingerprinting gel electrophoresis, to identify a DNA fingerprint. Your lab helps you to understand how this method works.

Questions:

1. Gel electrophoresis is performed using the _____
_____ separating the _____
_____ and the _____.
2. What is the purpose of the power supply? It provides the electrical current.
3. The TBE buffer solution is used to help _____.
4. How are samples of DNA loaded _____
_____.
5. How are the samples loaded in the gel? _____
_____.
6. What is the purpose of the buffer? _____
_____.
7. Do you think you would find the samples in the smallest fragments of DNA? _____
_____.

Answers For Classzone Gel Electrophoresis Lab

Kieran Jordan, Marion Dalmasso



Answers For Classzone Gel Electrophoresis Lab:

Gel Electrophoresis Douglas Gersten, 1996 *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 **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: Nucleic Acids** P. Jones, 1995 Gel electrophoresis of nucleic acids is the one technique that spans the whole range of molecular biology techniques The combination of its high resolution and versatility of its applications makes it the one method used by all molecular biologists This book gives clear step by step protocols for all the important techniques from simple analytical separations of nucleic acids to the latest PCR techniques Hence it will be essential reading for all those working in the area of molecular biology The *Essential Techniques Series* books are designed to provide you with immediate access to the protocols you require every day These handy pocket sized manuals are easy to carry around and conveniently spiral bound making them ideal for lab

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Electrophoresis in Practice Reiner Westermeier, 2001-03-21 This is your Laboratory Guide for successful electrophoretic separations Organized in two parts it gives the reader a thorough presentation of the fundamentals followed by a detailed description of 15 of the most common methods currently in use The Third Edition now includes the latest developments in 2D electrophoresis as well as an overview of the proteome analysis methodology From reviews of the previous editions The rigorous description of each method along with the extensive figures will easily allow the novice to reproduce these methods in the laboratory The Analyst Perhaps the most important point about the book is that all the recipes provided do actually work Journal of Laboratory Medicine an excellent book which we recommend greatly and which has not to be missed in any laboratory of cellular and molecular biology which respects it self Cellular and Molecular Biology As a comprehensive guide to the huge variety of electrophoretic methods now available this is very good value The superb troubleshooting appendix almost justifies the price on ist own Laboratory Equipment Digest

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

Protein Electrophoresis Biji T. Kurien, R. Hal Scofield, 2016-05-01 Each chapter in this Methods in Molecular Biology book details a specific electrophoretic variant so that scientists can perform new techniques without difficulty Includes step by step protocols troubleshooting advice and tips on avoiding pitfalls

Pulsed Field Gel Electrophoresis Bruce W. Birren, Eric Hon Cheong Lai, 1993 This laboratory manual reviews all types of pulsed field electrophoresis It describes commercially available systems summarizes advantages and limitations of each and includes step by step protocols for sample preparation and analysis

DNA Electrophoresis Svetlana Makovets, 2016-08-23 In DNA Electrophoresis Methods and Protocols expert researchers in the field detail many of the methods which are now commonly used to study DNA using electrophoresis as the major approach A powerful tool that allows separating DNA molecules according to their size and shape this volume includes methods and techniques such as 2 dimensional gel electrophoresis as the major approach These include methods and techniques such as 2 dimensional gel

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Methods in Zone Electrophoresis John R. Sargent,1965 *Pulse Field Gel Electrophoresis* Kieran Jordan,Marion Dalmasso,2016-10-05 This volume will be of interest to epidemiologists food microbiologists and anyone working on comparing bacterial isolates Pulse Field Gel Electrophoresis Methods and Protocols guides readers through methods and protocols that will advance the harmonisation of PFGE methodologies and facilitate inter laboratory comparisons of PFGE profiles from pathogenic and non pathogenic bacteria As a volume in the highly successful Methods in Molecular Biology series chapters contain introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible protocols and tips on troubleshooting and avoiding known pitfalls Concise and easy to use Pulse Field Gel Electrophoresis Methods and Protocols aims to ensure successful results in the further study of this vital field *Starch-gel Electrophoresis* Connaught Medical Research Laboratories,1964

Difference Gel Electrophoresis Kay Ohlendieck,2017-10-11 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

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