

LABORATORY EXERCISE #3. Detection of genetically modified food products by gel electrophoresis

Introduction

PCR products of differing lengths can be separated from each other based on size by an analytical method called gel electrophoresis. In this method charged macromolecules (such as DNA, RNA or proteins) migrate through a porous gel typically made from agarose (polysaccharide polymer derived from sea weed) or polyacrylamide when an electrical current is applied. The DNA sample is loaded into a well within the gel and placed near the anode (negative charge). As DNA has a very high negative charge due to the presence of the ionized phosphate groups on its backbone, it will migrate away from the negative anode toward the positively charged cathode as electrophoresis takes place. During the migration, smaller DNA fragments will pass through the gel pores more easily and thus migrate through the gel faster. Larger DNA molecules take longer to get through the pores and will migrate slower. The separated DNA "bands" or fragments can be visualized within the gel by staining with **ethidium bromide**. This dye intercalates (inserts) itself into the DNA and will fluoresces under ultraviolet light. In other words, DNA fragments will appear as fluorescent bands in the gel when exposed to UV light (Fig 1).

Concept check: If you compared two DNA fragments, one of 200-base pairs (bp) and the other of 1000 bp, which fragment will appear lower on the gel/have migrated faster?

Q: During gel electrophoresis, DNA is separated based on what two properties?

A: Size and charge

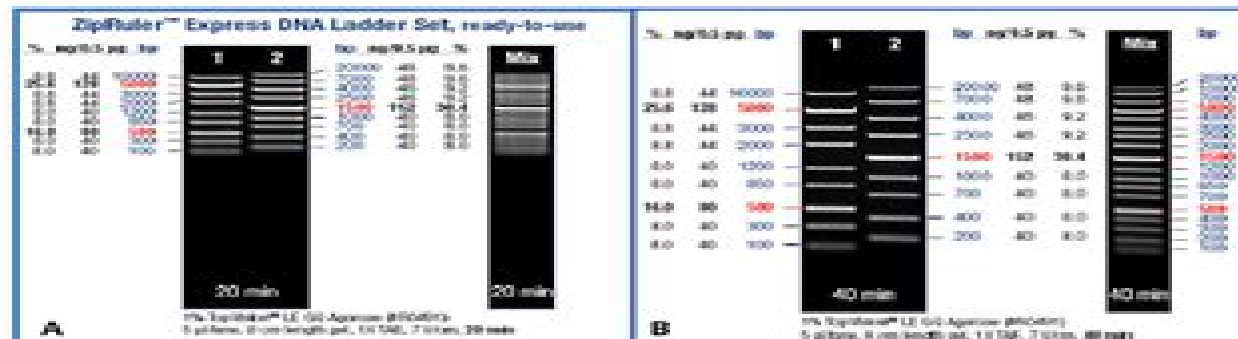


Figure 1. DNA fragments of known size are separated on an agarose gel for 20 min (A) or 40 min (B). By comparing the results, you can see how at 20 min, the DNA fragments are not well separated but by 40 min, the individually sized fragments are well separated and the size is easily determined. Figure adapted from Biogen.

Electrophoresis Laboratory Manual

JA Banks



Electrophoresis Laboratory Manual:

Food Analysis Laboratory Manual S. Suzanne Nielsen, 2010-03-20 This second edition laboratory manual was written to accompany Food Analysis Fourth Edition ISBN 978 1 4419 1477 4 by the same author The 21 laboratory exercises in the manual cover 20 of the 32 chapters in the textbook Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component of characteristic Most of the laboratory exercises include the following introduction reading assignment objective principle of method chemicals reagents precautions and waste disposal supplies equipment procedure data and calculations questions and references This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis *Electrophoresis* S. T. Nerenberg, 1966 *Nucleic Acid Electrophoresis* Dietmar Tietz, 2012-12-06 Electrophoresis is a powerful method to analyze nucleic acids DNA RNA Various sophisticated techniques such as capillary electrophoresis pulsed field electrophoresis fingerprinting using RFLP and RAPD DNA sequencing and mobility shift assay are described in detail The required apparatus appropriate use preparation of probes gel staining interpretation of results tricks for troubleshooting manufacturers addresses helpful Internet resources as well as specific applications e g in legal medicine microbiology and agriculture are presented by leading experts *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 **A Practical Manual of: Biochemistry** Ms. Jharna Maiti, Dr. Amit Joshi, 2023-08-25 The Biochemistry Practical Manual is a comprehensive and indispensable guide designed to aid students researchers and laboratory professionals in mastering the fundamental techniques and principles of biochemistry Authored by leading experts in the field this book serves as a practical companion to standard biochemistry textbooks bridging the gap between theoretical knowledge and hands on laboratory experience Covering a wide range of experiments and methodologies the manual equips readers with the necessary skills to conduct successful biochemical experiments and interpret their results accurately **Handbook of Detection of Enzymes on Electrophoretic Gels** Gennady P. Manchenko, 2002-12-26 Still widely used as gene markers isozymes detected by zymogram

techniques have proven valuable in a range of other biological applications over the last few years Along with these new applications many new techniques have also emerged Yet more than eight years since the Handbook of Detection of Enzymes on Electrophoretic Gels was first publish **Human Molecular Biology Laboratory Manual** Stefan Surzycki,2008-04-15 Human Molecular Biology Laboratory Manual offers a hands on state of the art introduction to modern molecular biology techniques as applied to human genome analysis In eight unique experiments simple step by step instructions guide students through the basic principles of molecular biology and the latest laboratory techniques This laboratory manual s distinctive focus on human molecular biology provides students with the opportunity to analyze and study their own genes while gaining real laboratory experience A Background section highlighting the theoretical principles for each experiment Safety Precautions Technical Tips Expected Results Simple icons indicating tube orientation in centrifuge Experiment Flow Charts Spiral bound for easy lab use **Laboratory Handbook of Chromatographic and Allied Methods** Otakar Mikeš,1979

Laboratory Manual For Genetic Engineering VENNISON, S. JOHN,2009-01-01 This systematically designed laboratory manual elucidates a number of techniques which help the students carry out various experiments in the field of genetic engineering The book explains the methods for the isolation of DNA and RNA as well as electrophoresis techniques for DNA RNA and proteins It discusses DNA manipulation by restriction digestion and construction of recombinant DNA by ligation Besides the book focuses on various methodologies for DNA transformation and molecular hybridization While discussing all these techniques the book puts emphasis on important techniques such as DNA isolation from Gram positive bacteria including Bacillus sp the slot lysis electrophoresis technique which is useful in DNA profile analysis of both Gram negative and positive bacteria plasmid transduction in Bacillus sp and the conjugal transfer of plasmid DNA in cyanobacteria Bacillus and Agrobacterium tumefaciens This book is intended for the undergraduate and postgraduate students of biotechnology for their laboratory courses in genetic engineering Besides it will be useful for the students specializing in genetic engineering molecular biology and molecular microbiology KEY FEATURES Includes about 60 different experiments Contains several figures to reinforce the understanding of the techniques discussed Gives useful information about preparation of stock solutions DNA protein conversions restriction enzymes and their recognition sequences and so on in Appendices Starch Gel Electrophoresis of Conifer Seeds M. Thompson Conkle,1982 *Laboratory Protocols in Applied Life Sciences* Prakash Singh Bisen,2014-02-26 As applied life science progresses becoming fully integrated into the biological chemical and engineering sciences there is a growing need for expanding life sciences research techniques Anticipating the demands of various life science disciplines Laboratory Protocols in Applied Life Sciences explores this development This book covers a wide spectrum of areas in the interdisciplinary fields of life sciences pharmacy medical and paramedical sciences and biotechnology It examines the principles concepts and every aspect of applicable techniques in these areas Covering elementary concepts to advanced research techniques the text analyzes data through experimentation and explains the

theory behind each exercise It presents each experiment with an introduction to the topic concise objectives and a list of necessary materials and reagents and introduces step by step readily feasible laboratory protocols Focusing on the chemical characteristics of enzymes metabolic processes product and raw materials and on the basic mechanisms and analytical techniques involved in life science technological transformations this text provides information on the biological characteristics of living cells of different origin and the development of new life forms by genetic engineering techniques It also examines product development using biological systems including pharmaceutical food and beverage industries Laboratory Protocols in Applied Life Sciences presents a nonmathematical account of the underlying principles of a variety of experimental techniques in disciplines including Biotechnology Analytical biochemistry Clinical biochemistry Biophysics Molecular biology Genetic engineering Bioprocess technology Industrial processes Animal Plant Microbial biology Computational biology Biosensors Each chapter is self contained and written in a style that helps students progress from basic to advanced techniques and eventually design and execute their own experiments in a given field of biology

Electrophoresis of Enzymes Gunter M. Rothe, 2012-12-06 The electrophoresis of enzymes and isoenzymes is a well established technique in biochemical clinical environmental microbiological botanical and forensic laboratories and classical electrophoresis is presently undergoing a remarkable revival This book compiles facts and methods on enzyme electrophoresis widely dispersed in hundreds of publications The author summarizes them in clearly readable tables in many carefully worked out electrophoresis and more than 140 staining protocols The exhaustive practical experience of the author and the wealth of material summarized and reviewed makes this book a must for every enzyme laboratory It will supply the practitioner with profound information on state of the art enzyme electrophoresis *Current Catalog* National Library of Medicine (U.S.), 1993 First multi year cumulation covers six years 1965 70 Zone Electrophoresis Ivor Smith, 2013-10-22 Chromatographic and Electrophoretic Techniques Volume II Zone Electrophoresis Second Edition presents tried and tested methods of zone electrophoresis which has been carried out on commercially available apparatus offering many advantages to the majority of laboratories This book is divided into 14 chapters and begins with a brief introduction to the general principles of zone electrophoresis The subsequent chapters deal with the principles instrumentation and applications of various methods of zone electrophoresis including low and high voltage paper cellulose acetate thin layer agar and starch gel and preparative block electrophoresis The remaining chapters cover other zone electrophoresis methods such as acrylamide gel disc acrylamide flat gel and continuous electrophoresis This book is of value to analytical chemists and biologists

Saibo denki eido jikkenho Takashi Yamada, 1973 *Agriculture Handbook*, 1993 Set includes revised editions of some nos **Molecular Biomethods Handbook** Ralph Rapley, John M. Walker, 2007-10-09 An authoritative team of investigators illuminate the core bioanalytical techniques used every day in their own laboratories and laboratories throughout the world These highly experienced scientists fully explain both the theory behind and the application of these key techniques and

include extensive references for those seeking detailed laboratory protocols The techniques covered range from the extraction separation detection and characterization of nucleic acids to gene cloning and library production mapping expression transgenesis differential display and DNA profiling to name a few Numerous key protein methods as well as support and related techniques are also included The goal is to provide established scientists and novices who are new to these techniques with a deeper understanding of the widest variety of biotechniques and their applications

Chromatography ,2011-08-26 Chromatography **Laboratory Methods for the Detection of Mutations and Polymorphisms in DNA** Graham R. Taylor,1997-01-24 The analysis of DNA sequence polymorphisms and mutations is of central importance in understanding biological systems This book is devoted to the experimental analysis of DNA and presents easy to follow protocols Various techniques from the simple to the highly complex are detailed in this volume providing a wide spectrum of available methods and practical advice The methods are described in terms of History and background Principles and theory Equipment and reagents Protocols Troubleshooting Applications Improvements Results Comparisons with other methods Future prospects and developments This is an essential manual for researchers working in human animal or plant molecular genetics and is particularly valuable for hospital and commercial laboratories Gel Electrophoresis of Proteins B. D. Hames,1998 A laboratory manual presenting methods in a step by step format and hints and tips from experienced researchers Among the varieties of gel electrophoresis described are one dimensional polyacrylamide isoelectric two dimensional and preparative Eight of the ten chapters of the earlier editions in 1981 and 1990 have been rewritten by new authors They discuss methods that have been developed and tested since then including capillary gel electrophoresis the sequence analysis of gel resolved proteins fluorophore labelled saccharide electrophoresis and analyzing interactions between proteins Annotation copyrighted by Book News Inc Portland OR

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Table of Contents Electrophoresis Laboratory Manual

1. Understanding the eBook Electrophoresis Laboratory Manual
 - The Rise of Digital Reading Electrophoresis Laboratory Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrophoresis Laboratory Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electrophoresis Laboratory Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electrophoresis Laboratory Manual
 - Personalized Recommendations

- Electrophoresis Laboratory Manual User Reviews and Ratings
- Electrophoresis Laboratory Manual and Bestseller Lists
- 5. Accessing Electrophoresis Laboratory Manual Free and Paid eBooks
 - Electrophoresis Laboratory Manual Public Domain eBooks
 - Electrophoresis Laboratory Manual eBook Subscription Services
 - Electrophoresis Laboratory Manual Budget-Friendly Options
- 6. Navigating Electrophoresis Laboratory Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Electrophoresis Laboratory Manual Compatibility with Devices
 - Electrophoresis Laboratory Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electrophoresis Laboratory Manual
 - Highlighting and Note-Taking Electrophoresis Laboratory Manual
 - Interactive Elements Electrophoresis Laboratory Manual
- 8. Staying Engaged with Electrophoresis Laboratory Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrophoresis Laboratory Manual
- 9. Balancing eBooks and Physical Books Electrophoresis Laboratory Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrophoresis Laboratory Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electrophoresis Laboratory Manual
 - Setting Reading Goals Electrophoresis Laboratory Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electrophoresis Laboratory Manual
 - Fact-Checking eBook Content of Electrophoresis Laboratory Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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