

Unit Eight: DNA Fingerprinting using Agarose Gel Electrophoresis

Modified from:
Cholesterol Diagnostics Kit Protocol (Edvotek, Inc., 2014)
DNA Fingerprinting Kit Protocol (Bio-Rad Laboratories, Inc., 2010, www.biorad.com)
Electrophoresis of DNA Student Guide, Carolina Biological Supply Company
Dr. Deborah Clark (2006, BIO102 Laboratory Manual for Majors)



Objectives:

1. Explain applications of restriction enzymes and DNA gel electrophoresis.
2. Learn the theory and technique of DNA gel electrophoresis.
3. Interpret the results of a DNA Fingerprinting experiment.
4. Determine the size of DNA fragments by creating a standard curve.

Introduction:

DNA fingerprinting uses DNA to show relatedness or identity of humans, plants, animals or microorganisms (e.g., viruses). The applications of DNA fingerprinting are broad. This technology is routinely used in forensic science for criminal cases and paternity testing. It can be used to study the genetic basis for inherited diseases. DNA fingerprinting can be used to identify individuals as well as relatedness among animals or humans, for anthropology or conservation biology.

There are a variety of ways a person can perform DNA fingerprinting. In this laboratory exercise, you will use restriction enzymes to digest DNA samples followed by agarose gel electrophoresis to compare the samples. After visualizing these samples by staining the DNA, you will analyze and interpret your results.

I. Restriction Enzymes

DNA fingerprinting relies on differences in sequences of our DNA base pairs. In humans, 99% of DNA is identical among the population. It is in the remaining 1% that we are unique. In studying the sequences of DNA, you will find genes coding for specific proteins. There are also many areas of DNA considered

Dna Fingerprinting Study Guide

**James Trefil,Anthony J. Gaudin,Robert
M. Hazen**

Dna Fingerprinting Study Guide:

Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

The Absolute, Ultimate Guide to Lehninger Principles of Biochemistry Marcy Osgood, Karen A. Ocorr, 2008-04-04 The Absolute Ultimate Guide combines an innovative study guide with a reliable solutions manual in one convenient printed volume

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Study Guide and Solutions Manual Bruce A. Chase, Peter J. Russell, 2005-06 This student resource contains chapter outlines of text material solutions to all end of chapter problems key terms suggestions for analytical approaches problem solving strategies and a variety of additional questions for student practice Also featured are questions that relate to chapter specific animations and iActivities

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Key Aspects of the Book

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Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

The Sciences, Study Guide James Trefil, Anthony J. Gaudin, Robert M. Hazen, 2000-11-24 The Sciences An Integrated Approach 3e is the only text on the market for the integrated science course It integrates physics chemistry astronomy earth sciences and biology for students with little or no science background The new third edition builds on the successful previous edition by incorporating changes that meet reform curriculum guidelines Given the dynamic nature of the science disciplines covered in Trefil's text updated content is critical The new third edition has thoroughly updated content throughout bringing the most up to date discoveries to the students in all five disciplines its broad approach that covers such a variety of the science disciplines updated content is crucial This revision has several significant changes URL's are included at the ends of each chapter many of the Science News boxes are updated to show hot topics

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added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application Student Study Guide to Accompany Botany, Second Edition, Moore, Clark, Vodopich Rebecca McBride DiLiddo, Randy Moore, 1998 Study Guide Essential Biology with Physiology Edward J. Zalisko, 2003-07 Students can master key concepts and earn a better grade with the thought provoking exercises found in this study guide Study advice tables quizzes and crossword puzzles help students test their understanding of biology The Study Guide also includes references to student media activities on the Essential Biology CD ROM and Website *Student Study Guide and Solutions Manual to accompany General Organic and Biological Chemistry, 1e* Kenneth W. Raymond, 2005-10-07 Finally readers have a shorter less intimidating introduction to general organic and biological chemistry Not only is Raymond s text concise it also takes an integrated approach to presenting important topics in a way that makes the material easier to understand In this approach similarities can be exploited and concepts reinforced The result is that readers see the strong connections that exist between these three branches of chemistry

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