

# 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*

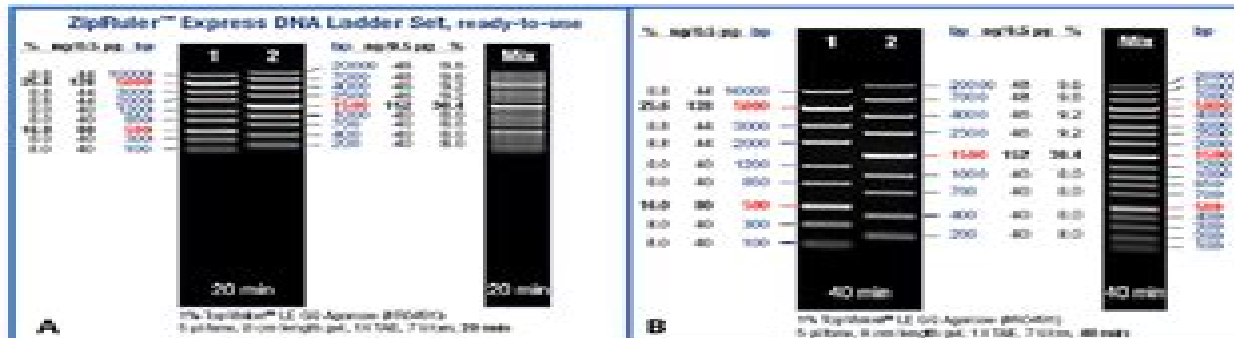


Figure 1. DNA fragments of known size are separated on an agarose gel for 20 min (A) or 40 min (B). By comparing the results, you can see how at 20 min, the DNA fragments are not well separated but by 40 min, the individually sized fragments are well separated and the size is easily determined. Figure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

# Gel Electrophoresis Lab Manual Answers

**N Colangelo**



## **Gel Electrophoresis Lab Manual Answers:**

## **Gel Electrophoresis Lab Manual Answers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Gel Electrophoresis Lab Manual Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Gel Electrophoresis Lab Manual Answers**

1. Understanding the eBook Gel Electrophoresis Lab Manual Answers
  - The Rise of Digital Reading Gel Electrophoresis Lab Manual Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Gel Electrophoresis Lab Manual Answers
  - 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 Gel Electrophoresis Lab Manual Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gel Electrophoresis Lab Manual Answers
  - Personalized Recommendations
  - Gel Electrophoresis Lab Manual Answers User Reviews and Ratings
  - Gel Electrophoresis Lab Manual Answers and Bestseller Lists

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