

## Gel Electrophoresis Virtual Lab Worksheet

### Instructions

Go to the following link and complete the gel electrophoresis virtual lab:

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Select "Gel Electrophoresis" from the list and start the virtual lab.

The lab is based on using gel electrophoresis for DNA fingerprinting. In our lesson, we discussed using gel electrophoresis for nanotechnology, specifically determining if the PEG molecule has been attached to the quantum dot. Even though this lab presents a different application for gel electrophoresis, the lab helps you to understand how this method works!

### Questions

1. Gel electrophoresis is a technique used for **separating molecules, such as DNA strands and proteins, according to their lengths.**
2. What is the purpose of the power supply? **The power supply is used to produce an electric current in the electrophoresis chamber.**
3. The TBE buffer solution is used to help **carry an electric current.**
4. Shorter strands of DNA travel **more easily and over time, farther** on the agarose gel than do larger strands.
5. Once an electric current is applied, notice that the **negative electrode** is closest to the wells, and the **positive electrode** is farthest from the wells.
6. Which suspect is the victim? **Suspect 2.**  
How do you know? **Suspect 2's DNA matches the evidence DNA.**
7. Do you think you would find the largest or the smallest fragment of DNA closest to the well? Explain. **The largest fragment will be found closest to the well where it began because it will move slower than the smaller fragments, which can move through the gel easier.**

# Gel Electrophoresis Lab Answer Key

**S Ashworth**



**Gel Electrophoresis Lab Answer Key:**

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## **Table of Contents Gel Electrophoresis Lab Answer Key**

1. Understanding the eBook Gel Electrophoresis Lab Answer Key
  - The Rise of Digital Reading Gel Electrophoresis Lab Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Gel Electrophoresis Lab Answer Key
  - 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 Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gel Electrophoresis Lab Answer Key
  - Personalized Recommendations
  - Gel Electrophoresis Lab Answer Key User Reviews and Ratings
  - Gel Electrophoresis Lab Answer Key and Bestseller Lists
5. Accessing Gel Electrophoresis Lab Answer Key Free and Paid eBooks
  - Gel Electrophoresis Lab Answer Key Public Domain eBooks
  - Gel Electrophoresis Lab Answer Key eBook Subscription Services
  - Gel Electrophoresis Lab Answer Key Budget-Friendly Options

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