

Objective: In this virtual lab, you will identify the resources and process of Gel Electrophoresis.



Introduction:

1. What is Gel Electrophoresis used for?
2. Using the picture to the left, describe how DNA moves through a gel.

Step One: Make the Gel & Step Two: Step up the Gel Apparatus

3. What is buffer and what is it used for?
4. What is the purpose of the "comb?"

Step Three: Load the DNA sample into the Gel



5. Label the following on your bench. Your *Pipette tips (F)* has already been done for you.

- | | | | |
|---|-------|---|-------|
| A | _____ | C | _____ |
| B | _____ | D | _____ |
| E | _____ | | |

6. What are the two major functions of "Loading Buffer?"

1. _____
2. _____

Gel Electrophoresis Lab Simulation Answer Key

R Pring



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electrophoresis was invented barely 10 years ago but has already become a major technique mostly with hundreds of often the case with new techniques the results published are dated by the time they reach print For reasons a number of the authors of 600k have effectively served the community on PFGE applications for several years by now many of the major methods have been tested and improved that we feel a 600k of techniques would be the preparation method and 7 other 600k reviewed 1994 PFGE were published However the present work the first to incorporate the protocol style the hallmark of the method is that has made that approach the past in addition many of the chapters include on helpful strategies planning experiments the part of the 600k contains the ories and 65 chapters include the complex behavior of DNA during PFGE For any given application of PFGE the reader proceed by a systematic protocol from more than one chapter e.g. CHEF preparation of agarose gels and mapping strategies help processes this we have tried hard to provide an index and cross references that easily access to the methods it may be useful to read chapters not immediately related to the topic mind For example a user of CHEF may find helpful hints in the chapters on FAGE OFAGE or 7AGE Certain methods such as the preparation of yeast markers are done somewhat differently different labs and the reader find several protocols from which to choose

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