

Introduction

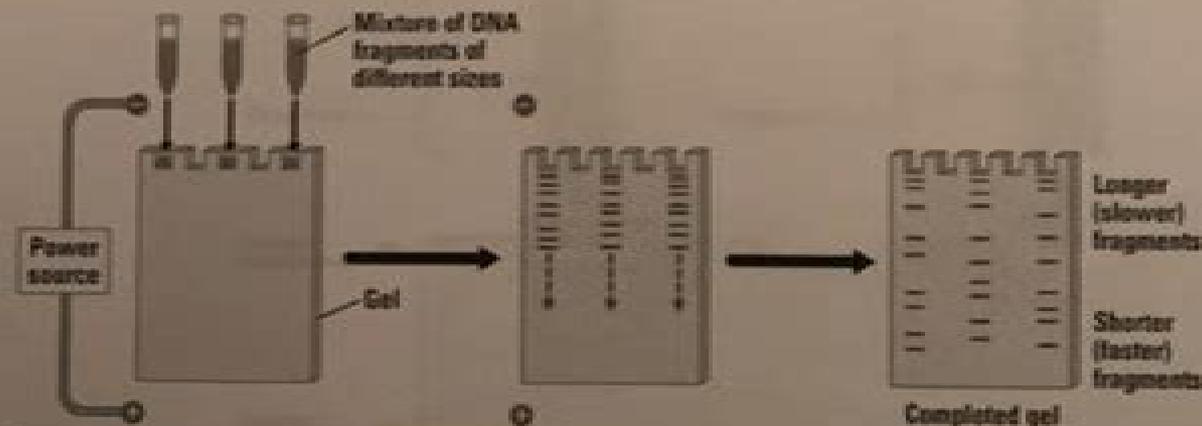
Gel electrophoresis is a basic biotechnology technique that separates macromolecules according to their charge and size. It is frequently used to analyze and manipulate samples of DNA, RNA, or proteins. In this laboratory activity, agarose gel electrophoresis will be used to separate and characterize colored dye molecules of various sizes and charges.

In gel electrophoresis, samples to be separated are applied to a porous gel medium made of a material such as agarose. Agarose gels are made by pouring a molten solution of agarose and buffer into a gel mold called a casting tray. Before the agarose solidifies, a comb is placed in the casting tray to create a row of wells into which samples are loaded once the comb is removed from the solidified gel. The casting tray and solidified gel are then placed in an electrophoresis chamber that has wire electrodes at each end. The gel is covered with a buffer that controls the pH of the system and conducts electricity. The comb is then carefully removed from the gel and samples are loaded into the resulting wells using a pipette.

Once all the samples have been loaded into the wells, the chamber is connected to a power supply and an electrical current is applied to the gel. The chamber is designed with a positive electrode (anode) at one end and a negative electrode (cathode) at the other end. Molecules with a net negative charge migrate toward the positive electrode and molecules with a net positive charge migrate toward the negative electrode because opposite charges attract.

The overall charge of a molecule affects the speed at which it travels through the gel. Highly charged molecules migrate more quickly through the gel than weakly charged molecules. The size and shape of the molecule also affects how quickly it travels through the gel. Agarose gels contain a matrix of minuscule pores that acts like a sieve. Small molecules maneuver more easily through the pores of the gel than larger molecules, allowing them to migrate relatively quickly.

Size and net charge are factors that together determine how quickly molecules will travel through the gel, and thus what their migration distance will be. If a molecule is small or highly charged, this will increase its migration rate through the gel. If a molecule is large or weakly charged, this will decrease its migration rate through the gel.



Carolina Electrophoresis Lab Answers

Ying Liu



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Carolina Science and Math Carolina Biological Supply Company,2003 Carolina Tips ,1986 **People v. Young, 425 MICH 470 (1986)** ,1986 67373 South Carolina Wildlife ,1989 Exploring Genetics and Developmental Biology Using Multidimensional[multidimensional] Manipulatives and Biotechnology Laboratories Danida Dawn Saffron,2001

Encyclopedia of Stem Cell Research Clive N. Svendsen,Allison D. Ebert,2008-08-12 What is a stem cell We have a basic working definition but the way we observe a stem cell function in a dish may not represent how it functions in a living organism Only this is clear Stem cells are the engine room of multicellular organisms both plants and animals However controversies breakthroughs and frustration continue to swirl in eternal storms through this rapidly moving area of research But what does the average person make of all this and how can an interested scholar probe this vast sea of information The Encyclopedia of Stem Cell Research provides a clear understanding of the basic concepts in stem cell biology and addresses the politics ethics and challenges currently facing the field While stem cells are exciting alone they are also clearly fueling the traditional areas of developmental biology and the field of regenerative medicine These two volumes present more than 320 articles that explore major topics related to the emerging science of stem cell research and therapy Key Features Describes the different types of stem cells that have been reported so far and where possible tries to explain for each age tissue and species what is known about the biology of the cells and their history Captures a strong sense of stem cell biology as it stands today and provides the reader with a reference manual to probe the mysteries of the field Considers various religious legal and political perspectives Includes selected reprints of major journal articles that pertain to the milestones achieved in stem cell research Elucidates stem cell terminology for the nonscientist Key Themes Biology Clinical Trials Countries Diseases Ethics History and Technology Industry Institutions Legal Organizations People Politics Religion States With contributions from scholars and institutional experts in the stem cell and social sciences this Encyclopedia provides a primarily nonscientific resource to understanding the complexities of stem cell research for academic and public libraries

Encyclopedia of Stem Cell Research ,2008 Provides an understanding of the basic concepts in stem cell biology and addresses the politics ethics and challenges currently facing the field From publisher description Scientific and Technical Aerospace Reports ,1984 **Lab World** ,1977 **Science Education International** ,2006 **Clinical Laboratory Reference** ,2002 Laboratory products and services currently available in the United States Product information section arranged alphabetically by companies Entries include description and ordering information Indexes by manufactures brand names and test equipment and services Product photograph section Aerospace Medicine and Biology ,1984-07

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