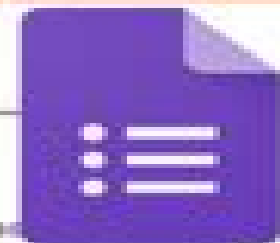


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Gel Electrophoresis - Lab Techniques

Gel Electrophoresis Mastery Level

B I U  



Gel electrophoresis is a widely used laboratory technique that separates molecules such as proteins based on their size, charge, or shape. This method relies on the principle that when an electric field is applied, molecules migrate through a gel matrix at different rates, known as their **migration rate**. The gel, typically made of **agarose** for larger molecules like DNA or **polyacrylamide** for smaller molecules like proteins, acts as a sieve. The choice of gel depends on the size and type of molecules being analyzed. For example, **SDS-PAGE** (Sodium Dodecyl Sulfate Polyacrylamide Gel Electrophoresis) is commonly used for protein analysis, while **native PAGE** (non-denaturing PAGE) preserves the protein's natural structure.

The process begins with preparing the sample, which often includes mixing it with **loading buffer** to monitor progress during electrophoresis. For protein analysis, **β -mercaptoethanol** is frequently added to break disulfide bonds, ensuring proteins are fully denatured. Once the samples are loaded into wells in the gel, an electric current is applied. The molecules move through the gel based on their charge-to-size ratio, with smaller molecules moving faster. Techniques like **TGGE** (Temperature Gradient Gel Electrophoresis) and **DGGE** (Denaturing Gradient Gel Electrophoresis) introduce additional factors like temperature or chemical gradients to enhance separation.

After electrophoresis, the separated molecules are visualized using specific staining methods. For DNA, **Ethidium Bromide** is commonly used, which binds to DNA and fluoresces under **UV light**. Proteins, on the other



Gel Electrophoresis Lab Teacher Answer Key

Victor M. Corman



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