

PCR Lab and Gel Electrophoresis

Questions

Answer the questions below after you have read the article and run the three simulations.

1. Outline the process of PCR. Include all primers, enzymes, and steps in the process.
2. Describe the uses of PCR technology.
3. Outline the process of gel electrophoresis. Include all steps in the process and all materials used.
4. Describe how gel electrophoresis separates DNA segments according to size.
5. Describe the uses of gel electrophoresis.
6. Explain any limitations of DNA profiling in identifying individuals accused of crimes. (i.e.: Are there any cases when DNA profiling might be inconclusive?)