

Biotechniques Laboratory · DNA Extraction

1. List three reasons for extracting DNA from a human subject.

2. Where DNA is found in the cell: _____

3. In our virtual test subject, where did we get cells from? _____

4. List the 4 steps needed to extract DNA.

- 1) _____
- 2) _____
- 3) _____
- 4) _____

5. The lysis solution contains detergent, the detergent will do what to the cell? _____

6. What does the salt do to the cellular mixture? _____

7. The centrifuge causes the debris to do what? _____

8. Isopropyl alcohol causes DNA to do what? _____

Biotechniques Laboratory · Gel Electrophoresis

1. a) Electrophoresis is used to sort DNA by _____

b) What is placed into the holes at the end of the gel? _____

c) By adding electric current, we can make the DNA _____

d) Shorter strands of DNA move [farther / slower] than longer strands.

2. Place the steps in the correct order.

- _____ Load DNA sample into the gel.
- _____ Stain the gel and analyze results
- _____ Make the gel
- _____ Hook up the electrical current
- _____ Set up gel apparatus

3. In the "Gel Electrophoresis Laboratory" follow the steps to make your own gel, answer the questions as you go.

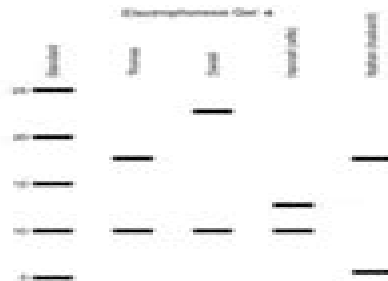
a) What is agarose made from? _____

b) Melted agarose is poured into a _____

c) Buffer _____ electric current in the electrophoresis box.

d) The black end generates a _____ charge, the red end a _____ charge.

e) What are your estimates for the number of base pairs in the three bands? _____



4. Nathan is not the father of which child

Answer Key Biotechniques Laboratory Dna Extraction

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