

Week 1 Lab 2 Gel Electrophoresis Group Worksheet

Look at the figure and follow the instructions below. To understand the figure: The open boxes at the bottom of the figure are the wells where the gene fragments produced by PCR were pipetted. Once the electrical current was applied to the gel, the gene fragments traveled from the wells at the bottom of the figure across the gel towards the top of the figure.

Lane 1 contains the **CO1 standard**. This is a gene fragment that is **710 base pairs long**, because that is the length of the CO1 gene in an organism that is commonly used in genetic procedures. **Lane 2** contains the **CO1 animal results** for your pond animal.

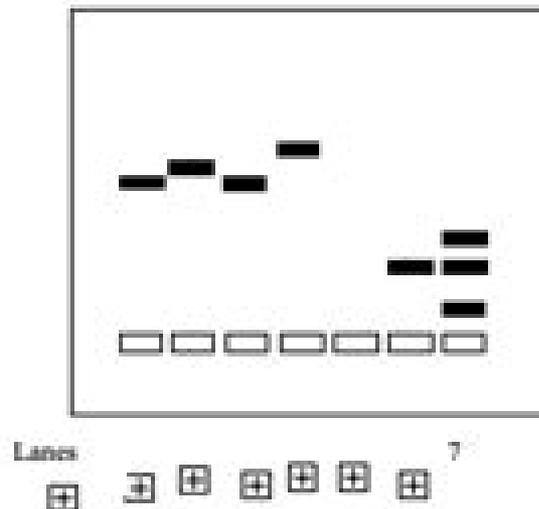
Lane 3 contains the **CO1 plant results** for your pond plant.

Lane 4 contains the **RbCl standard**. This is a gene fragment that is **658 base pairs long**.

Lane 5 contains the **RbCl plant results** for your pond plant.

Lane 6 contains the **16S standard**. This is a gene fragment that is **1300 base pairs long**.

Lane 7 contains the **16S bacteria results** for your pond bacterium.



1. Which sample showed the most successful PCR results, based on the bands present on the gel? To be clear, you should be looking at the samples in lanes 2, 3, 5, and 7 and comparing them to their corresponding standards in lanes 1, 4, and 6. In your individual post explain why that sample better than the other samples. Fully explain your reasoning. |

Gel Electrophoresis Simulation Lab Answers

A Gutmann



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