

## An Investigation of the Polymerase Chain Reaction

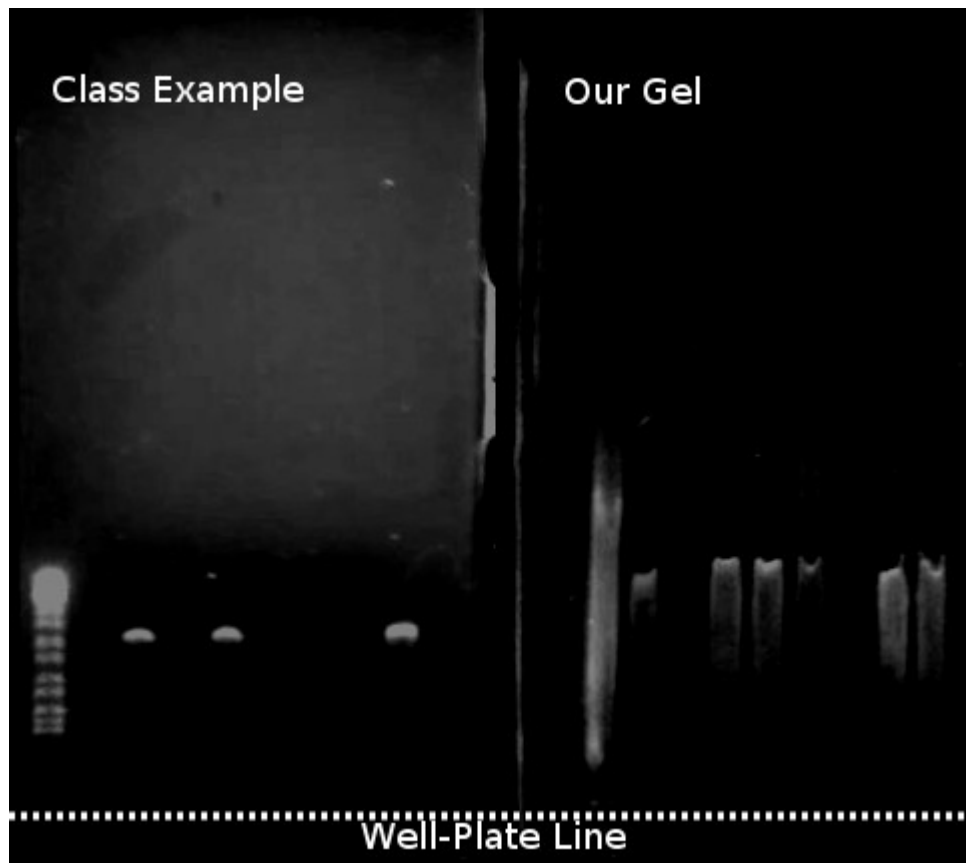
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Due: Wednesday, February 13, 2013

**Objective:**

The polymerase chain reaction (PCR) is widely used within the field of genetics to create many copies of DNA from a small amount. Initially used to detect sickle cell anemia, it was developed by Kary Mullis in 1983, it has become a very important technique for its ability to amplify DNA. In an effort to refine our skills and understand PCR's mechanisms of action, we completed a typical Polymerase Chain Reaction (PCR) upon template DNA, and three primers in this study. This amplified DNA is then run across an agarose gel. While the procedure did not yield the anticipated bands of DNA, it is believed that the oil sealant was too heavily disturbed to provide entirely accurate results. With this

**Results:**

*Figure 1: Agar Comparison*

As observed from the two well

**Discussion:****Extra Credit:**