

**LAB 22. DNA RESTRICTION ENZYME SIMULATION**

In this exercise you will use the computer to simulate the Lambda DNA restriction digests that you will also perform in the laboratory. Using the results from the computer simulation and your actual restriction digests, you will answer a series of questions designed to help you interpret the results of your DNA digests.

1. Download and SAVE the Lambda DNA sequence from the BiologyZone Web site: [http://bio.kimunity.com/ap\\_biology/labs/lambdaDNA.doc](http://bio.kimunity.com/ap_biology/labs/lambdaDNA.doc)
2. Save the file to your computer or to a disk.
3. Open the saved file in Microsoft Word. It contains the entire phage Lambda DNA sequence, or genome. Browse through the file. Notice how the file is simply a long string of the letters A, C, G and T.

**Question 1**

What does each of these letters represent?

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4. Now determine how many letters there are in the genome. To do this:
  - a. From the EDIT menu, choose SELECT ALL
  - b. Under the TOOLS menu, choose WORD COUNT
  - c. Note the number of characters.

**Question 2**

What is the size of the Lambda genome:

- a. in bases? \_\_\_\_\_
- b. in kilobases? (note: 1 Kb = 1,000 bases) \_\_\_\_\_

5. Click OK to close the window.

# Biology Lab 10 Restriction Enzyme Simulation Answers

**SA Adler**



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