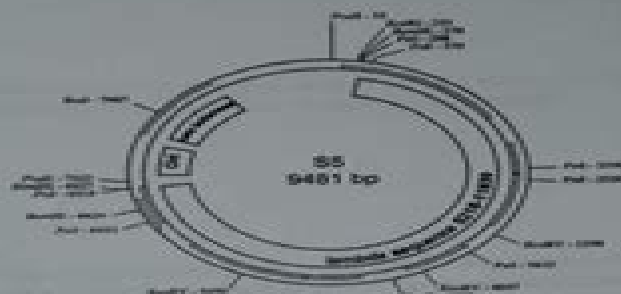


## Lab B Extension Activity: Plasmid Mapping and Restriction Enzymes

### Mapping the Plasmid

The first step in mapping a plasmid is to determine how many times a restriction site is found on that plasmid. Examine the results for plasmid S5 as an example. The data given in the following table are for the double digest using *EcoRI* and *PstI*. Also, given are the data for single digests by the individual enzymes. The numbers in the columns under each enzyme represent the sizes of all the fragments that are formed when each enzyme is used for a single digest.

The chart below shows the sizes of fragments that will be generated when plasmid S5 has been digested with the indicated restriction enzyme.



Plasmid S5

| Plasmid S5 (9451 bp) |              |  |  |
|----------------------|--------------|--|--|
| Enzymes              | <i>EcoRI</i> | <i>PstI</i>                                      | Both   |
| Fragments            | 9451         | 2800<br>2638<br>1986<br>1093<br>458<br>164<br>72 | 2638<br>2517<br>1986<br>1093<br>458<br>164<br>72<br>43 |
| Total                |              |  |  |

### Mapping the Plasmid Exercise.

# Extension Activity Plasmid Mapping Answer Key

**M Woodhall**



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