Post-lab for Experiment 7

Name:
Date:
Lab day:

1. List the amount of each compound that you added to each of the eight mixtures.

2. List the mixtures that had a zone of inhibition, and give the size (in mm) of the diameter of the zone for each.

3. Give the structure of the active antibiotic(s). Which aldehyde and hydrazone were used to make this hydrazine?

Staple the carbon copies of your lab notebook to the lab report.

Questions:

1. Give the mechanism for formation of the hydrazine from the aldehyde and hydrazone.

2. Why was it not necessary to add acid to make the hydrazines?

3. Another method to make a library of compounds is called the split-pool method. Explain how the split-pool method works (include reference(s)), and how it could be used to make all 256 possible tetrapeptides from the amino acids alanine, phenylalanine, glycine, and proline.