TLC Lab Mini-report Names:_____
Chem 2062 Spring 2006

1. Briefly state the problem you were trying to solve in this experiment, and the procedures you used to solve it.

2. Sketch your developed TLC plate. Use lines to represent the distances you measured.

3. Create a table with the TLC plate positions, identities of each spot, R_f, and appearance under UV and I_2. Give one example R_f calculation.

4. Draw the structures of the standard compounds you were given, and rank them in order of polarity (1=most polar) based on your TLC results. Rationalize the polarities in terms of the structures of the molecules (hint: consider the amount of hydrocarbon character vs. the amount of polar heteroatom character in the structures)

5. State the number of your unknown and the names of its components. How close are its R_f values to those of the corresponding standard solutions?

6. Say we had used a less polar solvent. How would this affect the R_f values of the compounds? Explain.