## Thin Layer Chromatography Worksheet

1. How many pigments were you able to visualize and identify? List them and describe their appearance.

2. What is the  $R_f$  value for the pigments in your TLC plate.

3. Were your  $R_f$  values comparable to those obtained by other students in the class? If not, could you explain any observed discrepancies?

4. Which of the following pairs of compounds would be most easily separated by thin layer chromatography: n-octyl alcohol and 1-octene, hexadecane and octadecane, or chlorobenzene and bromobenzene? Justify your answer.

5. How could thin layer chromatography be used to aid in the identification of a compound?