

Separation of a Dye Mixture Using Chromatography

Pre-Lab Assignment

- Figure 1 is a sample paper chromatogram for three samples: A, B and C. Label the drawing with the following items: the stationary phase, the mobile phase and the solvent front.

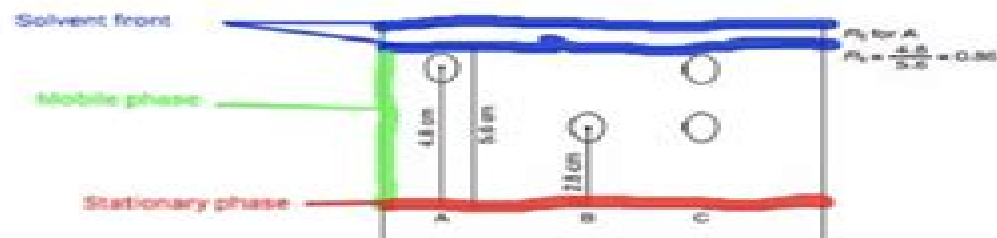


Figure 1.

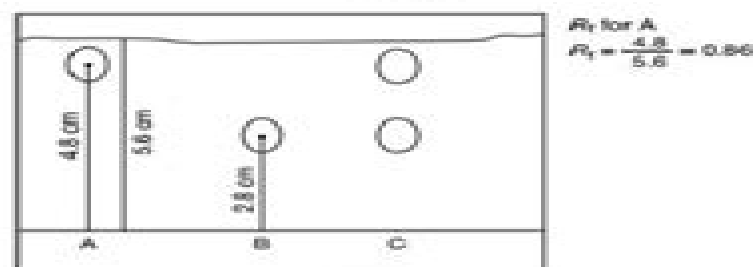


Figure 1.

- Calculate the Rf value for the spot in sample B using sample A as an example. $R_f \text{ B} = .5$
- Sample C gave two spots on the paper chromatogram. What does this tell you about the composition of the sample? *It means that there is two different compounds in it.*
- Based on the Rf values of samples A and B, what can you conclude about the intermolecular attractions both samples have for the eluent and the paper? *Sample A is less polar and sample B is more polar.*

Background

The entire palette of artificial food colors is derived from just seven dyes certified by the FDA for use in food, drugs, and cosmetics. How can these FD&C dyes be identified in a mixture? How do the molecular structures of the dye molecules influence their properties, including their relative solubility or affinity for different solvents?

The use of color additives increased dramatically in the United States in the second half of the nineteenth century. As the economy became more industrial, demographics shifted, fewer

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JA Banks



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