

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.

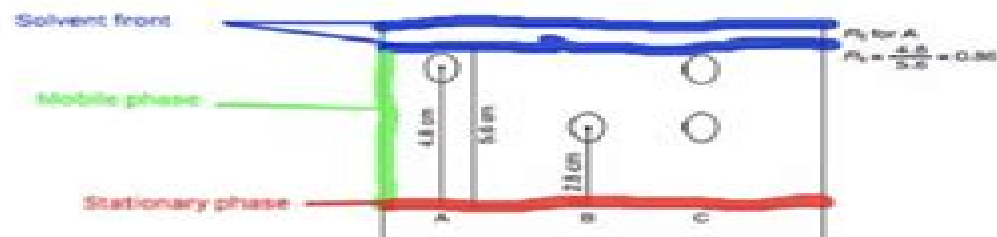


Figure 1.

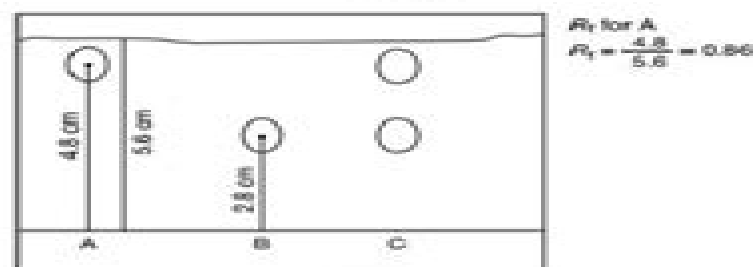


Figure 1.

- 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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D Kirk



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Some vols include Buyer s guide **Biological Abstracts** Jacob Richard Schramm,1961 **Index Veterinarius** ,2005
Separating and Identifying Food Dyes by Paper Chromatography Peter G. Markolo,1989-01-01

The Enigmatic Realm of **Separation Of Dye Mixture Using Chromatography Post Lab Questions**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Separation Of Dye Mixture Using Chromatography Post Lab Questions** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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