

Separation of a Dye Mixture Using Chromatography

Lab Experiment Part 1

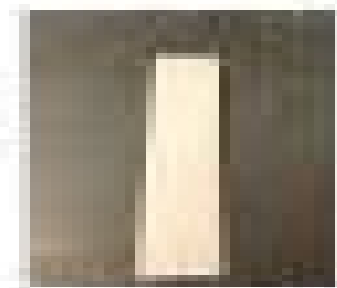
Objectives

1. Understand the principles of chromatography.
2. Perform a separation of a dye mixture using chromatography.
3. Calculate the retention time (R_f) of the components.
4. Identify the components of the mixture.
5. Understand the factors affecting the separation.
6. Calculate the partition coefficient (K_d).
7. Understand the applications of chromatography.
8. Calculate the resolution (R_s).
9. Understand the importance of chromatography in analytical chemistry.
10. Calculate the peak area.
11. Understand the factors affecting the peak area.
12. Calculate the peak height.
13. Understand the factors affecting the peak height.
14. Calculate the peak width.
15. Understand the factors affecting the peak width.

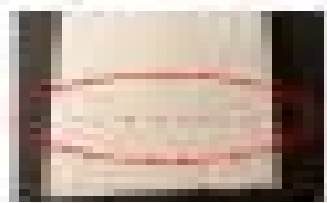
Introduction

Chromatography is a technique used to separate the components of a mixture. It is based on the principle of differential partitioning between a stationary phase and a mobile phase.

1. The stationary phase is a solid support material, such as silica gel, which is coated with a liquid phase.
2. The mobile phase is a liquid or gas that carries the components of the mixture through the stationary phase.



3. The components of the mixture are separated based on their affinity for the stationary phase. Components with a higher affinity for the stationary phase move more slowly than those with a lower affinity.
4. The separation is monitored by visual inspection or by using a detector.
5. The components are identified by comparing their retention times with those of known standards.
6. The retention time (R_f) is calculated as the distance traveled by the component divided by the distance traveled by the solvent front.
7. The partition coefficient (K_d) is calculated as the ratio of the concentration of the component in the stationary phase to its concentration in the mobile phase.
8. The resolution (R_s) is a measure of the degree of separation between two components.
9. The peak area is a measure of the quantity of a component in a mixture.
10. The peak height is a measure of the concentration of a component in a mixture.
11. The peak width is a measure of the spread of a component in a mixture.



Separation Of Dye Mixture Using Chromatography Lab Answers

Nicole Terese Ritchard



Separation Of Dye Mixture Using Chromatography Lab Answers:

Research in Education ,1969-12 *Resources in Education* ,1969-07 *Merrill Chemistry* Robert C.
Smoot,Smoot,Richard G. Smith,Jack Price,1998 *Current Index to Journals in Education* ,1976 The Optimized
Separation of Direct Blue 199 Dye Using High-performance Liquid Chromatography Nicole Terese Ritchard,2001

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