



Liquid Chromatography AP Chemistry Laboratory #18

Introduction

In this experiment, liquid chromatography is used to separate the substances that are present in grape-flavored Kool-Aid®. First, the dyes responsible for the purple color, FD&C Blue #1 and Red #40 are separated. Then, in a second experiment, the other components of Kool-Aid®, the flavorings and citric acid, are separated as well.

Concepts

- Liquid chromatography
- Resolution
- Selectivity

Background

Chromatography is an important analytical tool used to separate the components of a mixture. These components become separated or *partitioned* between a stationary phase and a moving phase of the chromatography system. The moving phase is either a gas or a liquid and the stationary phase is usually a solid. The mixture to be separated is combined with the mobile phase. As the mobile phase "solution" flows over the stationary phase, the components of the mixture continuously equilibrate between the phases, based on their particular affinity for each phase. A higher attraction for the mobile phase leads to a higher concentration of a component in the mobile phase and a faster transport through the entire system. Components more strongly attracted to the stationary phase take longer to migrate through the system. This results in the components becoming separated into bands that flow through the system at different rates. If the separation, or *resolution*, is sufficient, the bands will exit the system as distinct fractions (Figure 1).

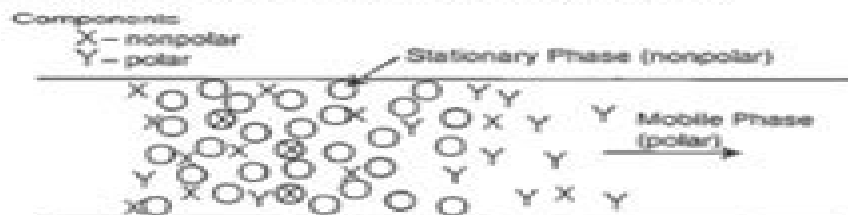


Figure 1.

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