

Analysis of Food Dyes in Beverages

AP Chemistry Advanced Inquiry Lab

Introduction

Assume an investigative role and design a valid procedure using spectroscopy and graphical analysis to determine the concentration of FD&C food dyes in sports drinks. The investigation will develop and test your skills in preparing accurate serial dilutions, understanding spectroscopic measurements, and extrapolating from graphical data.

Concepts

- Spectroscopy
- Absorbance vs. transmittance
- Wavelength
- Consumer science
- Beer's law
- Solution concentration

Background

The color of a solution is an important tool used by scientists to gain information about the composition of the solution. Color is a physical property that is useful for both **qualitative** and **quantitative** analysis. A *qualitative* method yields information about the nature or type of compound in a sample, where as a *quantitative* method provides numerical data for the amount of a compound in a sample.

Spectroscopy is the study of the interaction of light and matter. A spectrophotometer is an instrument that uses electromagnetic radiation from a selected region of the electromagnetic spectrum, such as **ultraviolet**, **visible** or **infrared** light, to analyze the **absorption** or **transmission** of radiation by a sample. The basic function of a spectrophotometer is shown in **Figure 1**. The electromagnetic spectrum (see **Figure 2**) is the entire range of possible wavelengths or frequencies of electromagnetic radiation. In this investigation a visible spectrophotometer will be used—it scans the visible region of the electromagnetic spectrum, from 380 nm to 750 nm. Typical light sources for visible spectrophotometers include xenon and tungsten lamps.



Figure 1.



Figure 2.

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Rose Arny



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Faso,1974 **Canadiana** ,1980 **Library of Congress Catalog** Library of Congress,1961 *Western Brewer, and Journal of the Barley, Malt and Hop Trades* ,1926 *Films and Other Materials for Projection* Library of Congress,1953

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Analysis Of Food Dyes In Beverages Teachers Notes Flinn**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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