

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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Lingsheng Yao



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NIAAA Information & Feature Service National Institute on Alcohol Abuse and Alcoholism (U.S.),1974 **NIAAA**
Information and Feature Service ,1976 The National Union Catalog ,1961 Constitutes the quinquennial cumulation of
the National union catalog Motion pictures and filmstrips Scientific American ,1868 **Canadiana** ,1980 New York
Magazine ,1991-01-14 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and
quickly made a place for itself as the trusted resource for readers across the country With award winning writing and
photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to
reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an
idea **The Cornellian** ,1998 Films and Other Materials for Projection Library of Congress,1953 Designs in
Affective Education Elizabeth W. Flynn,John F. La Faso,1974 Library of Congress Catalog Library of Congress,1961
Western Brewer, and Journal of the Barley, Malt and Hop Trades ,1926 **Princeton Alumni Weekly** ,1974
Bowker's Complete Video Directory ,2000 *Book Review Index* ,1978 Every 3rd issue is a quarterly cumulation
Forthcoming Books Rose Arny,2003 **Editor & Publisher Market Guide** ,1954 *The New York Times Index* ,1979
Medical and Health Care Books and Serials in Print ,1986 **Bibliography of Agriculture with Subject Index**
,1995 American Book Publishing Record ,2000

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