

# Analysis of Food Dyes in Beverages

#### Concepts:

Spectroscopy, Beer's law, chemical analysis, analyte concentration determination

# Use the following recommendations to increase and/or decrease the challenge difficulty for your students.

#### Short-on-time Inquiry Lab:

In this laboratory, students will use spectrophotometry and graphical analysis to determine the concentration of a dye in a sports drink. Students will prepare a series of standard dilutions of an FDB-C dye stock solution and will measure the absorbance of each. The results will be analyzed graphically to obtain a Beer's law calibration curve of absorbance versus concentration. Using this calibration, students will determine the concentration of dye in a beverage sample.

#### Guided Inquiry Lab:

In this laboratory, students will use spectrophotometry and graphical analysis to determine the concentration of a dye in a sports drink. Students will prepare a series of standard dilutions of an FD&C dye stock solution and will measure the percent transmittance of each. They will analyze the results graphically to obtain a Beer's law calibration curve of absorbance versus concentration. Using this calibration, students will determine the concentration of dye in a beverage sample.

#### Open Inquiry Lab:

In this laboratory, students will use spectrophotometry and graphical analysis to determine the concentration of a dye in a sports drink. Students will measure the absorption spectrum of an FD&C dye to determine its wavelength of maximum absorption. Then, they will plan the preparation of a series of standard dilutions of an FD&C dye stock solution, and will measure the percent transmittance of each at this wavelength. They will analyze the results graphically to obtain a Beer's law calibration curve of absorbance versus concentration, which can be used to determine the concentration of dye in a beverage sample.

#### Advanced inquiry Lab:

In this laboratory, students will use spectrophotometry and graphical analysis to determine the concentration of a dye in a sports drink. Students will measure the absorption spectrum of an FD&C dye to determine its wavelength of maximum absorption. Then, they will prepare a series of standard dilutions of an FD&C dye stock solution, and will measure the percent transmittance of each at this wavelength. They will analyze the results graphically to obtain a Beer's law calibration curve of absorbance versus concentration, which can be used to determine the concentration of dye in a beverage sample.

#### Outcomes:

Students will obtain a Beer's calibration curve plotting absorbance versus concentration of dye in standard solutions, along with the linear equation that describes this plot. They will use this equation (Beer's law relationship) to determine the concentration of dye in a sports drink sample.

In the advanced and open versions, students will measure the absorption spectrum of one of the FD&C dyes to determine its wavelength of maximum absorption, prior to preparing the Beer's calibration curve.

#### Associated Phenomena:

What happens when food is cooked?

# Flinn Science Analysis Of Food Dyes

**B** Lingard

Flinn Science Analysis Of Food Dyes:

#### Reviewing Flinn Science Analysis Of Food Dyes: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "Flinn Science Analysis Of Food Dyes," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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