

## Determining the Concentration of FD&C #1 Blue Dye

Background and Purpose – Blue food dye that is available in grocery stores is a diluted solution of FD&C #1 blue dye. Your job is to determine the % and molar concentration of such a commercial blue dye.

Procedure:

You will have a visible spectrometer and the commercial food dye solution. Devise a procedure to find the food dye's molarity and percent composition (w/v). When you are making your solution or solutions consider whether Beer's Law is valid at that concentration and how you could prove that it is. The info from last semester's lab will be very useful.

Writeup

1. Abstract
2. A short report including a statement of Purpose, Procedure (with overview) and Results