

Section 027
Course 2045L
3 March, 2023

Part 2: Project 2: Food Dyes Analysis of Commercial Products

Objective:

In the second week of the experiment, we will be determining the concentration of food dyes in at least two commercial product. With the calibration curves that were made last week, we will be calculating the concentration of dye in the commercial product.

Materials:

- General laboratory glassware (volumetric flask, beaker)
- Red dye #3, #40
- Green dye #3
- Blue dye #2
- Yellow dye #5
- Graduated pipettes
- Pipette pumps
- Cuvettes
- Pasco Scientific Vis-Spectrophotometer Instrument

Chemical Hazards:

Molecular Name:	Molecular Formula:	Molecular Weight:	Appearance:	Hazards:	Notes:
Red dye#3	$C_{20}H_{14}Na_2O_5$	879.86 g/mol	Red liquid	Not considered hazardous	No odor
Red dye#40	$C_{16}H_{14}N_2Na_2O_6S_4$	496.42 g/mol	Red liquid	nausea, headaches, jitters, anxiety, and difficulty concentrating (with high intake).	No odor
Green dye#3	$C_{37}H_{34}N_2Na_2O_{10}S_3$	808.9 g/mol	Green liquid	Acute toxicity	No additional notes

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**United States. Food and Drug
Administration**



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