

# Fluorescent Dyes

## Fluorescence



### Introduction

Color is a result of the interaction of light with matter. The color that a solution appears to the human eye can change depending on the nature of the light source used to illuminate it. In this demonstration, four solutions that appear one color under visible light will “change” color when exposed to an ultraviolet “black” light.

### Concepts

- Fluorescence
- Transmittance
- Absorbance
- Transmission

### Materials

- Eosin Y solution, 1%, 5 mL
- Ethyl alcohol, 95%, 500 mL
- Fluorescein solution, 1%, 15 mL
- Rhodamine B solution, 1%, 1 mL
- Water, distilled or deionized, 1000 mL
- Water, tonic, 500 mL

- Beakers, 600-mL, 4
- Graduated cylinders, 10-mL, 3
- Stirring rods, 3
- Ultraviolet light source—black light
- Visible light source—classroom lights work well

### Safety Precautions

*Ethyl alcohol is flammable and a dangerous fire risk—avoid flames, heat, and other potential sources of ignition. Addition of denaturant makes ethyl alcohol poisonous; it cannot be made nonpoisonous. Dye solutions will easily stain hands and clothing; avoid contact of all chemicals with eyes and skin. Do not look directly at the black light; its high-energy output can be damaging to eyes. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron. Please review current Material Safety Data Sheets for additional safety, handling, and disposal information.*

### Preparation

- Beaker 1:** Pour approximately 500 mL of tonic water into one of the 600-mL beakers.
- Beaker 2:** Add 15 mL of 1% fluorescein solution to the second 600-mL beaker. Dilute the fluorescein solution by adding enough distilled or deionized water to reach the 500-mL mark on the beaker. Stir. *Note:* Prepare 1% fluorescein solution by dissolving 1 g of fluorescein in 100-mL distilled water.
- Beaker 3:** Add 5 mL of the 1% eosin Y solution to the third 600-mL beaker. Dilute the eosin Y solution by adding enough ethyl alcohol to reach the 500-mL mark on the beaker. Stir. *Note:* Eosin Y is soluble in water, but the fluorescence is not nearly as strong in water as it is in ethyl alcohol.
- Beaker 4:** Add 1 mL of the 1% rhodamine B solution to the fourth 600-mL beaker. Use a graduated cylinder or add 15 drops from the dropping bottle. Dilute the rhodamine B solution by adding enough distilled or deionized water to reach the 500-mL mark on the beaker. Stir.

### Procedure

- Place the four beakers in a row on the demonstration table in the following order: tonic water, fluorescein, eosin Y, and rhodamine B. Set the beakers on a light box or place a white background both below and behind the beakers. This will make it easier to clearly see the colors of each of the solutions.
- Turn on the light box or just use the classroom lights to observe the colors of the solutions.

# Fluorescent Dyes Flinn

**JG Myers**



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