

1. SET UP

- a. Plug in the Spec 200.
- b. Toggle the switch on the back panel to the on position.
- c. Clear the compartment and close the lid
- d. Press enter to initialize
- e. Wait while the Spec200 initializes (this may take a few minutes)
- f. At the end of initialization, the Spec 200 home menu will appear
- g. Select the "Spec 200 Modern Interface" and press enter
- h. Press the back arrow once to go to "application scan".
- i. Use the arrows to move to "Low λ " and adjust the wavelength to be 400nm, using the wavelength selector knob.
- j. Similarly, move to "high λ " and adjust the wavelength to be 700nm
- k. Use the arrows to move to "next" and press enter.
- l. Fill a cuvette to the line with DI water (this is the "blank").
- m. Place the blank into the spectrometer with the clear sides facing side-to-side in the spectrometer.
- n. Close the Spec 200 lid and press "0.00" to zero the spectrometer. The "zeroing ..." message will disappear when the process reaches completion, and the absorbance should read 0.00.

2. Absorbance Scan

- a. Fill a cuvette to the line with your analyte solution
- b. Place the cuvette into the spectrometer; clear sides facing side-to-side
- c. Close the spectrometer lid.
- d. Press enter. The "scanning ..." message will disappear and an absorbance spectrum will appear at the completion of the scan.

3. Collecting Data

- a. Use the wavelength selector knob to scroll the vertical line across the screen to different points along the absorbance spectrum. Stop and record enough data (Absorbance vs wavelength) to approximately recreate the spectrum as a scatter plot in Excel.
- b. The scatter plot should be in the form of a smooth line, without data markers.

4. Shut Down

- a. Turn off the instrument
- b. Unplug