Thermo Evolution 220 UV-Vis

Sample Prep

1. Solution: Prepare a 1×10^{-4} M solution in $CHCl_3$

2. Thin Film: Spin-cast on glass slides from 2 mg/mL solutions in chlorobenzene

Running a Sample

1. Turn on the UV-Vis (switch is on the back). The lamp doesn't need to warm up :)

2. Turn on the computer.

3. Open the INSIGHT 2 program and select the method you want (e.g. scan)

   4. Click "Settings" and set the desired parameters:

      a. **Measurement** tab

         i. Method template description

         ii. Baseline correction (if necessary)

      b. **Instrument** tab

         i. Data mode (absorbance or transmittance)

         ii. Wavelength range for measurement

         iii. Integration time, interval, scan speed, etc.

      c. **Sample** tab

         i. Number of samples and base name for files

      d. **Peak Pick** tab

         i. Sensitivity for automatic data analysis (can also do this manually later)

5. Go to **"file (menu) > save workbook settings as template"** to create a template

6. Click "measure"

7. Insert blank--make sure to close the cover

8. click "OK" to measure background

9. "Confirm sample list" box will pop up; verify the sample information and insert the first sample in the batch

10. click "continue" to take measurements

11. Pick peak(s) if you didn't choose to auto-pick them by going to "analyze > peak pick"

12. Click "reports" to save or export the data

    a. Select sample data from "samples" tab

    b. Select the order top include the data in the "reportable data" tab

    c. Use the "layout" tab to pick which items to display

    d. Preview the report if necessary

    e. Export by clicking "export"

13. When you're finished, close the program

14. Turn off the computer and UV-Vis