#### Agilent 8453 UV-vis Spectrometer

#### Introduction

The Agilent 8453 UV-Vis instrument is a simple but powerful diode-array spectrophotometer capable of quickly acquiring data in the spectral range from 190 to 1100 nanometers.





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#### Agilent 8453 UV-Vis Spectrophotometer

#### Instrument Startup

immediately.

- 1. Turn on the PC and monitor.
- 2. Login as Agilent 8453 with password bi019.
- 3. Turn on the instrument. The switch is at the lower left corner.
- Wait until the spectrometer has made some clicking noises.
- Double-click on the UV-Vis program icon to start the program.
- A program login box will appear. We do not use this feature of the software. Simply press "cancel" or "ok".
- The software should now open in the standard view with visible lamp lit.
- 8. If you need to take a spectra below about 400 nm click on the UV lamp icon to turn it on. The lamp takes a few seconds to light. You should allow the lamps to stabilize for about 15–20 minutes. If the exact absorbance is not important you can begin measurements
- 9. For wavelengths below 350nm both lamps are needed.
- For the visible region there are sample cuvettes in the cabinet above the instrument. If you need UV/quartz cuvettes you need to purchase your own.

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