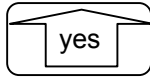


Spec 601 Operating Instructions

The Milton Roy Spectronic 601 can read the optical density/absorbance of samples in both visual and UV light. If you are reading in the visual range, disposable plastic cuvettes are o.k., you will need quartz cuvettes for readings in the UV. These cost ~\$100 apiece, so treat them with appropriate reverence and caution.

The spectrophotometer is located in B316.

To turn on:

- 1.) Move toggle switch on right-back corner of instrument to the right.
- 2.) The message "self-test" will appear on the display. Allow it to test itself in peace.
- 3.) Wait for the machine to make it through the "going to _____nm" and "adjusting lamp _____" messages.
- 4.) enter desired wavelength using number pad.
- 5.) press <second function> followed by <go to λ >, which is:  this should select the desired wavelength
- 6.) let the machine warm up for 30 min, and allow for 15 min if you have to switch between lamps.

To operate:

- 1.) press <T%/A/C> until A appears on the display
- 2.) open lid, insert blank into sample holder, close lid
- 3.) press <second function>, <100%T/Zero A> to blank the instrument
- 4.) 0.000 should appear in the display
- 5.) open lid, remove blank
- 6.) insert sample into sample holder, close lid
- 7.) record absorbance of sample
- 8.) measure remaining samples

Note:

If you are using 1 ml cuvettes, insert them so that the light path is still 1 cm.

