

# Nanometrics Microspectrophotometer

## **Calibration**

At the beginning of the first session of the day that the microspectrophotometer is in use, 100% lines and holmium oxide spectra should be calculated. All users should log their usage time as well.

### 100% Line

1. Focus on sample.
2. Take a **Reference** Spectrum. Adjust the gain as necessary (b/w 175-200).
3. Without moving the stage, take a **Sample** Spectrum. Leave all the settings as they are, you will take another sample later.
4. The resulting curve is the **100% Line**. Save this in the “**qc-100**” directory using the current date as the filename (i.e. 061196.spc).

### Holmium Oxide

1. Place the holmium oxide lens over the lower condenser and take another **Sample** spectrum.
2. Switch the spectrum to an Absorbance spectrum and mark the peaks. Monitor the 460 peak.
3. Save the spectrum in the “qc-homi” directory with the “h+current date” as the filename (i.e. h061196.spc).
4. In the Microspectrophotometer usage log by checking the appropriate column.

### Usage Log

1. In the microspectrophotometer usage log, record the date, which lamp was used, time it was used and your initials.
2. This should be performed each time the microspectrophotometer is used.

### Maintenance Log

**Please record any maintenance done to the microspectrophotometer in the maintenance log. This includes re-aligning the instrument, changing to new lamps, etc.**

