

SLM 8000

The shortest possible protocol

START UP

1. Power up the lamp power supply. **Make sure all other elements of the system are turned off before you ignite the lamp.**
2. Ignite the lamp. Check that the lamp is on (white light inside the lamp housing)
3. Turn on two power strips that supply power to the computer and instrument (next to window).
4. Wait for the computer to boot up (it will take a while)
5. Type “8000” at the C:\8000 prompt to start the SLM data collection/analysis software.
6. If needed turn on the water bath and select desired temperature setting.
7. The default slits’ settings are: 16, 8, 8, 8, 8 (going from the light source) – please get them back to the default setting if you modified the settings.
8. The appropriate acquisition settings will be created for you during a training sessions. These files are stored on the hard drive.

Converting Data to ASCII Format

1. **Esc** to go to previous menus until **Main Menu** is reached.
2. Exit the 8000 program, **but leave your data disk in the floppy drive.**
3. Create a folder with your name: *i.e.* **Pluto** (under C:\8000 prompt type “mkdir Pluto”)
4. Go back to 8000 program by typing “8000” under C:\8000 prompt
5. From Main Menu choose **Utilities Menu**.
6. Choose **Transfer data between text files and data files**
7. Enter path to desired files (**.\Pluto\Pluto**) Hit **Enter**
8. Enter extension used on desired files (use **txt** so the files will be text files once created)
9. Do you want to read from DOS text files? **No** (hit Enter)
10. Do you want to write X-axis values to the DOS text files? **Yes**
11. Enter the first and last record to convert (these are numbers of records on the a:\ floppy)
12. Hit **Space** to continue
13. **Esc Esc** and **exit** program.
14. type **cd Pluto** to change directory
15. type **dir *.txt** to check that the text files were created
16. Put a disk for text files in drive a:
17. Type **copy *.txt a:** where txt is the extension from above
18. Data will consist of 2 columns of numbers, the X-axis, which is either wavelength or time, and the Y axis, which is the relative fluorescence value. Use format in Excel to get rid of exponents.

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SHUT DOWN

1. Exit the SLM 8000 software.
2. **TAKE YOUR FLOPPY_** all your data are on this floppy- there is no backup made during data collection.
3. Shut down the two power strips that provide power to the computer and the spectrophotometer.
4. Turn off the water bath.
5. Turn off the lamp power supply.
6. Please be sure that you collect whatever you brought with you.

Cuvettes

Methacrylate ("Acryl") Sarstead # 67.755
285-750 nm (55%T at 280nm)
Good for most UV work

Polystyrene Sarstead # 67.754
340-750 nm
Use for visible range

Eppendorf UVette
220-1600nm range
50-2000ul volume
\$0.75 each

Quartz
Regular volume 1-4 ml
Low Volume, 50-100 ul

the SLM8000 uses cuvettes with "Z-dimension" of 15 mm