MICROPLATE READER INSTRUCTIONS:

1. Turn on Computer, Monitor and Printer.
2. Turn on Plate Reader at least 10 minutes before you use it.
3. Click on the Microplate Manager 4.0 icon.

   Important: You must have the Plate Reader turned on before you start the Microplate Manager software or it will not recognize the reader.

4. Go to File, and select New Template from the pull down menu. Plate1 Template will appear.
5. Click on B for Blank from the tool bar and then click on the cells you would like to blank.
6. Do the same for your samples. Click on X from the tool bar and then click on all the cells that contain your samples. Remember that each individual sample must have its own unique number. You can run duplicate cells, but you need to remember to designate these cells the same, as the program will average them for you.

Note: All cells in the template must have an assignment for the program to run.
Here is a list of your cell assignments that can be selected from the toolbar.

A = Sets dilution standards (?)
B = Blanks
+ = Positive controls
- = Negative controls
S = Standards
X = Sample (unknowns)
Plate with the Red X (on the end of the toolbar) = Eraser

7. When you are finished and all cells have been assigned, save the template by clicking on File and Save Data/Template As..... from the pull down menu.

   Note: If you have problems creating your own template, I have saved the same template that we used on Wendy’s plate reader and called it Practice.

8. Go to File, click on New Reading from the pull down menu, then click on New Endpoint Protocol.

9. A new window will appear. Fill in these windows with the following:

   Reader: Model 450

   Reading Parameters:
   Measurement filter: 450
   Wavelength: Single
10. Click on the **Pick Template** button. Find your template file from the list, highlight it and click OK. It will appear for you. You can move the window by dragging it out of the way or you can minimize it.

11. If you click on **Show Template**, it will just show it again.

12. Click on **Reports**. There will be a list of all the reports that you can generate from your reading. Plate template and the raw data report are default and will always run. You need to select and add any additional ones that you would like the program to create. Select them and click OK.

13. Click **Run**. You should hear the reader reading the plate (If you don’t something is wrong and you need to start over). You can also watch the green elapsed time run in the box. It takes about 24 seconds.

14. Your reports will popup on the screen when the reader is finished. You will probably have 3. You can click on these and select the print icon from the tool bar.

    Plate: Template
    Plate: Absorbance Report (Blanks will not print on this report)
    Plate: Raw Data Report

15. You are Finished!!!!!! Close all your report windows. If you would like to save something, just select save from the pull down menu name your data file and save.

16. Please remember to turn off the Microplate Reader, Computer, Monitor and Printer.