

Cary IC_QSG_378P

Cary Spectrophotometer Auto-Sampler: Quick Start Guide

Agilent Technologies SPS3 (SPS3)

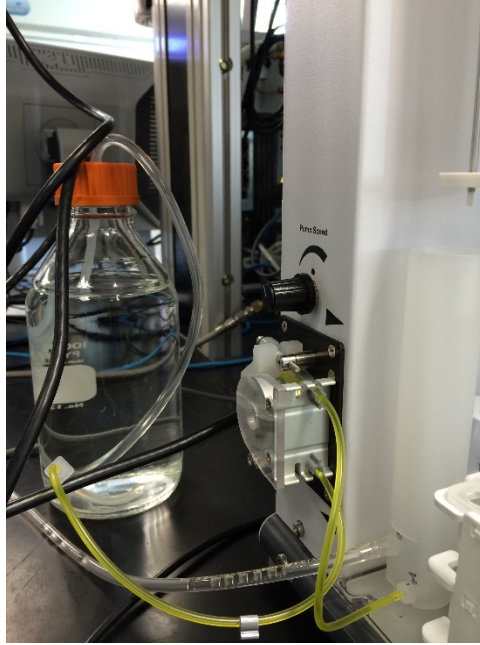
The Agilent Technologies SP3 autosampler facilitates sample introduction into the Cary Spectrophotometer with minimal operator time. Yay! The SP3 is connected to PC via RS232 cable to Keyspan USB converter.



The SP3 is connected to Cary unit via RSA sample inlet tube.

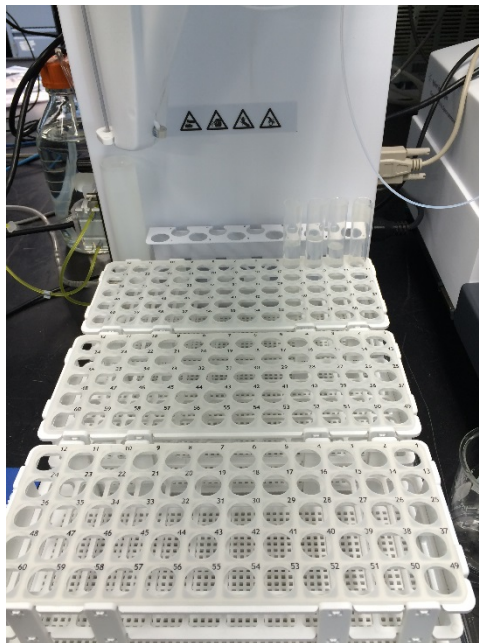


The reservoir peristaltic pump allows DI water to be pumped through the system between samples to flush lines.



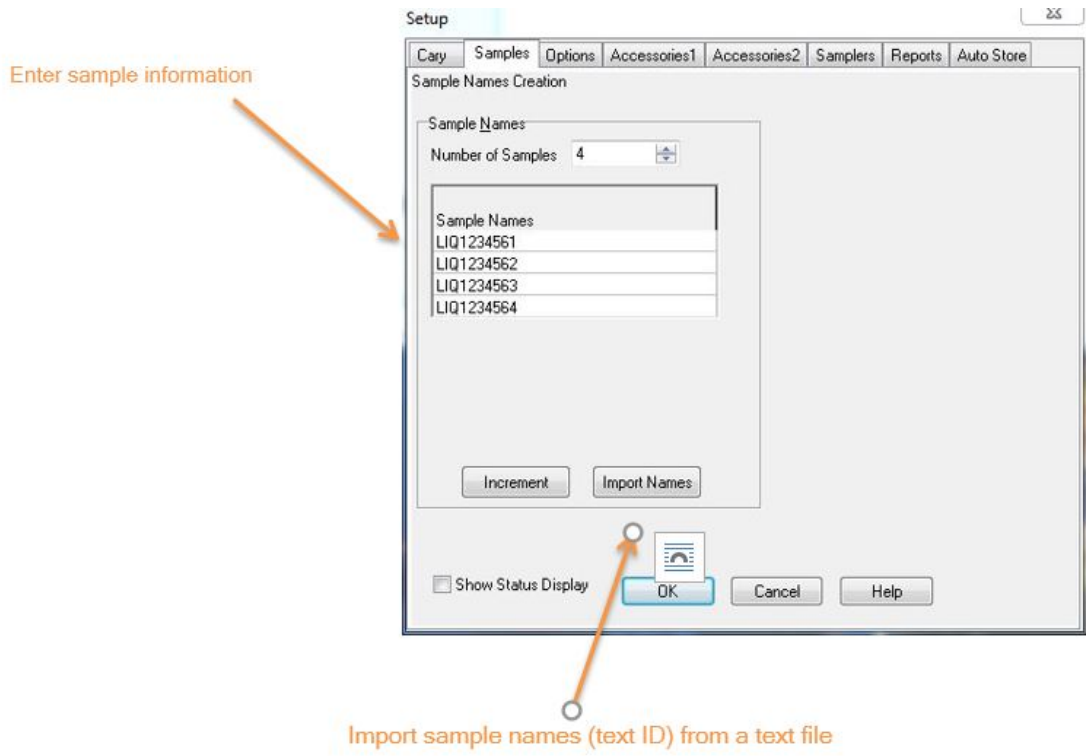
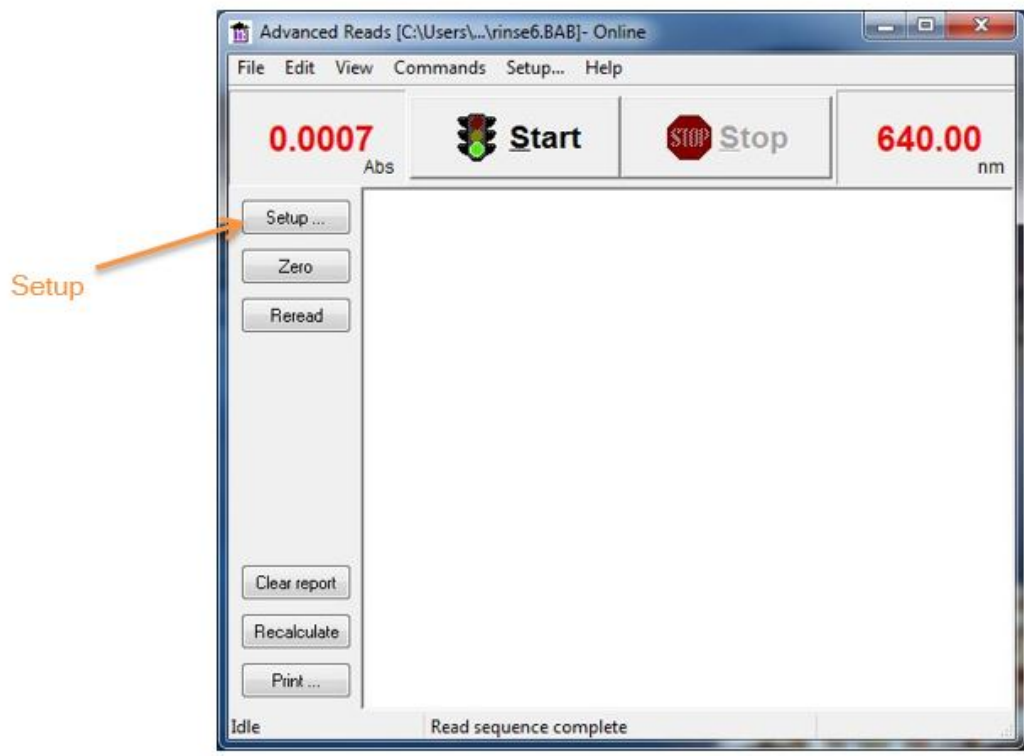
Pump speed is controlled by a dial above the pump. This pump fills the reservoir but does not change the flow into the Cary's flow cell; that is controlled by the spectrometer's peristaltic pump. (fills reservoir but does not change flow into Cary). That is controlled by the Cary's peristaltic pump.

Sample trays allow up to 180 samples to be run. First vial is a "zero" (DI water).

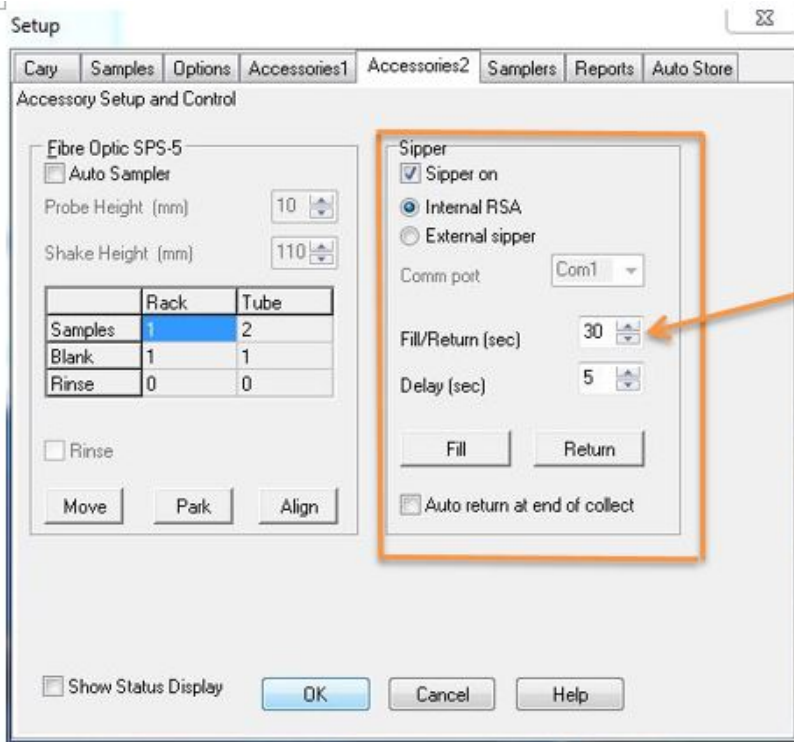


Software setup

Advanced Reads setup



RSA (sipper) settings

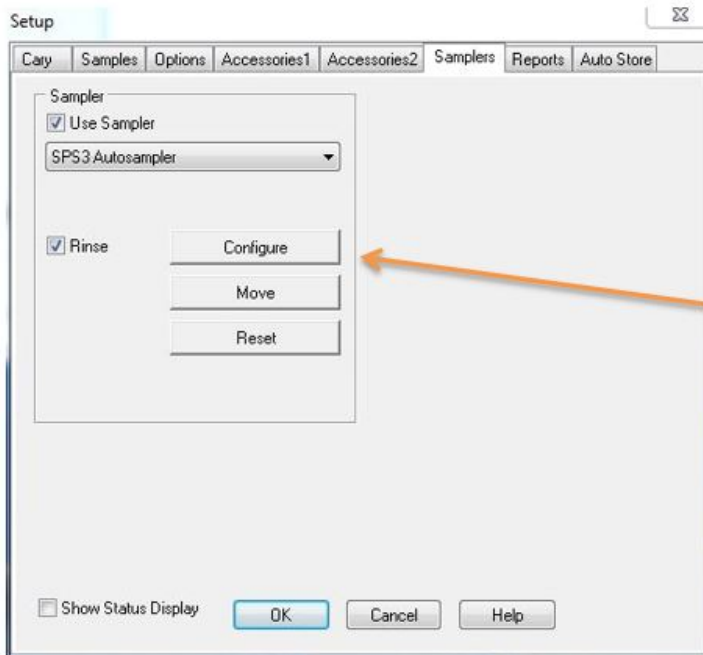


RSA (sipper) settings

30 sec uptake

30 sec read delay

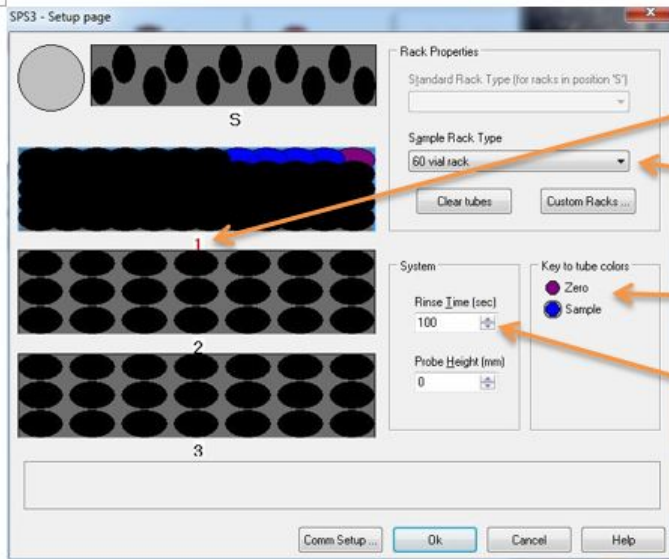
SPS3 configuration settings#



SPS3 configuration settings

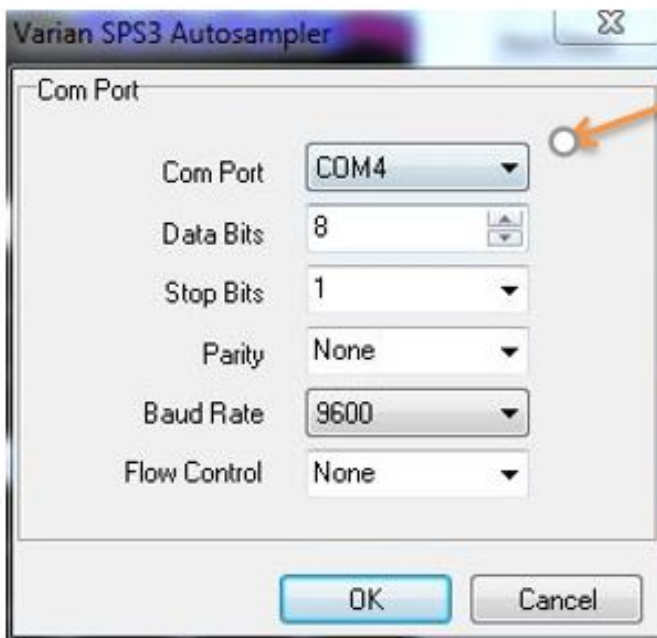
1. Click CONFIGURE to bring up the next window. Make sure that the *Rinse* option is checked.

1. Assign a *Rack Type*.



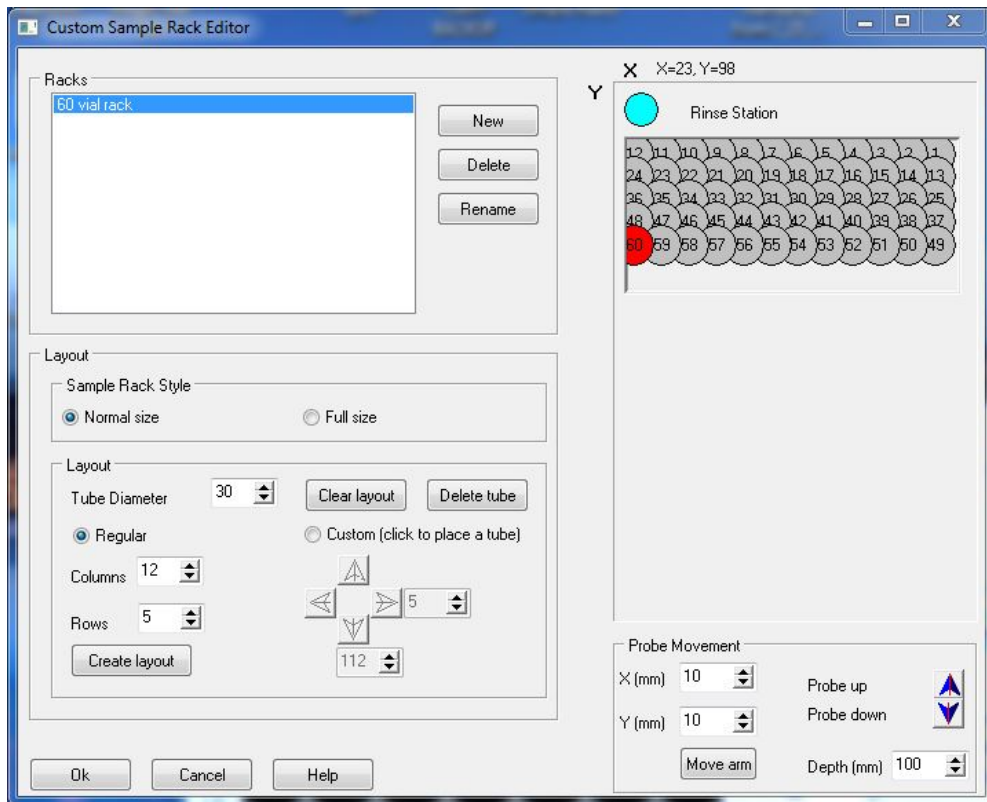
2. Click on tray (on this screen the number for tray1 has turned red).
3. Assign a *Rack Type*.
4. To assign zero and samples, first click tube color and then click Individual tray numbers.

rinse time : 100 sec



5. Click on *Custom Racks* in the previous screen to configure sample racks.

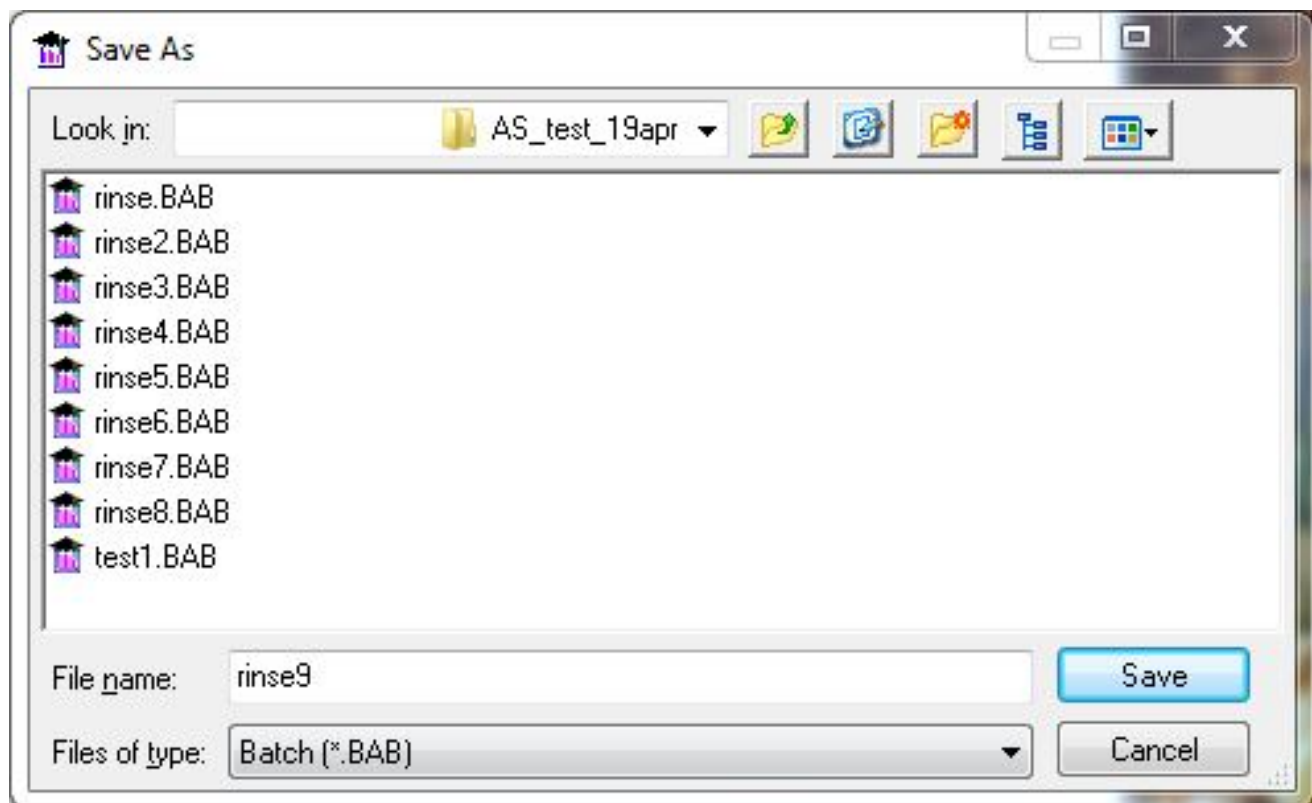
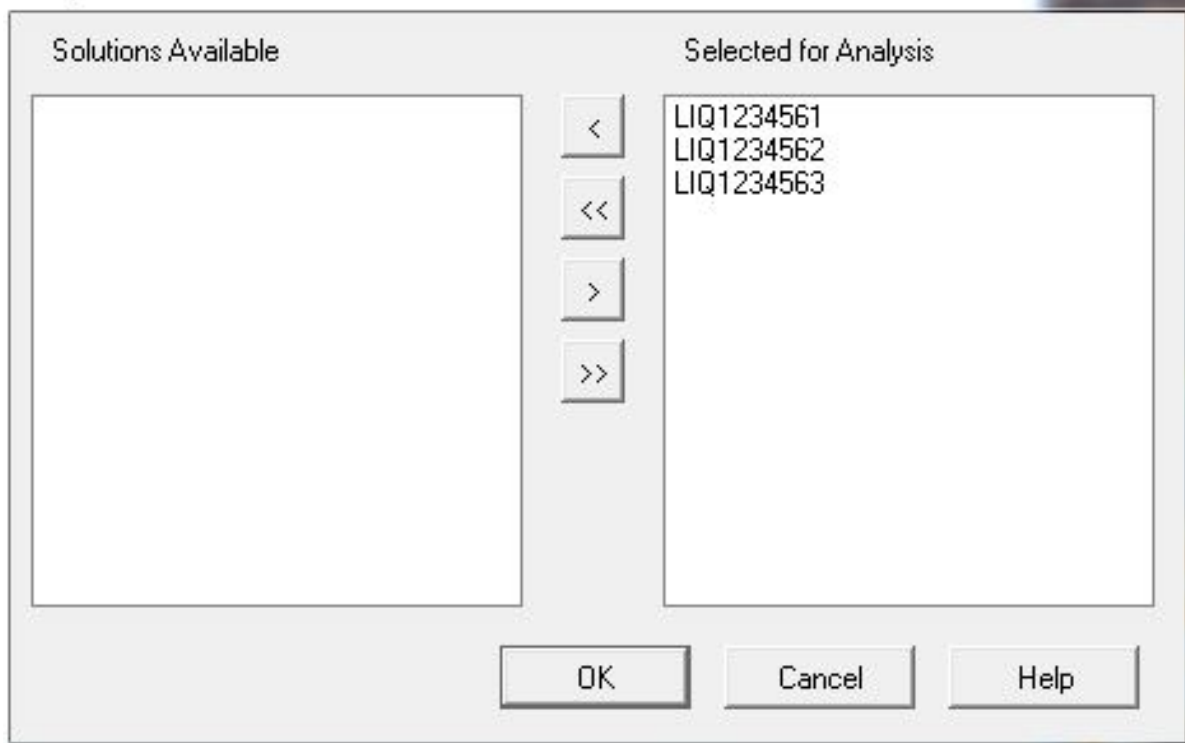
This example shows a simple 60 vial rack.



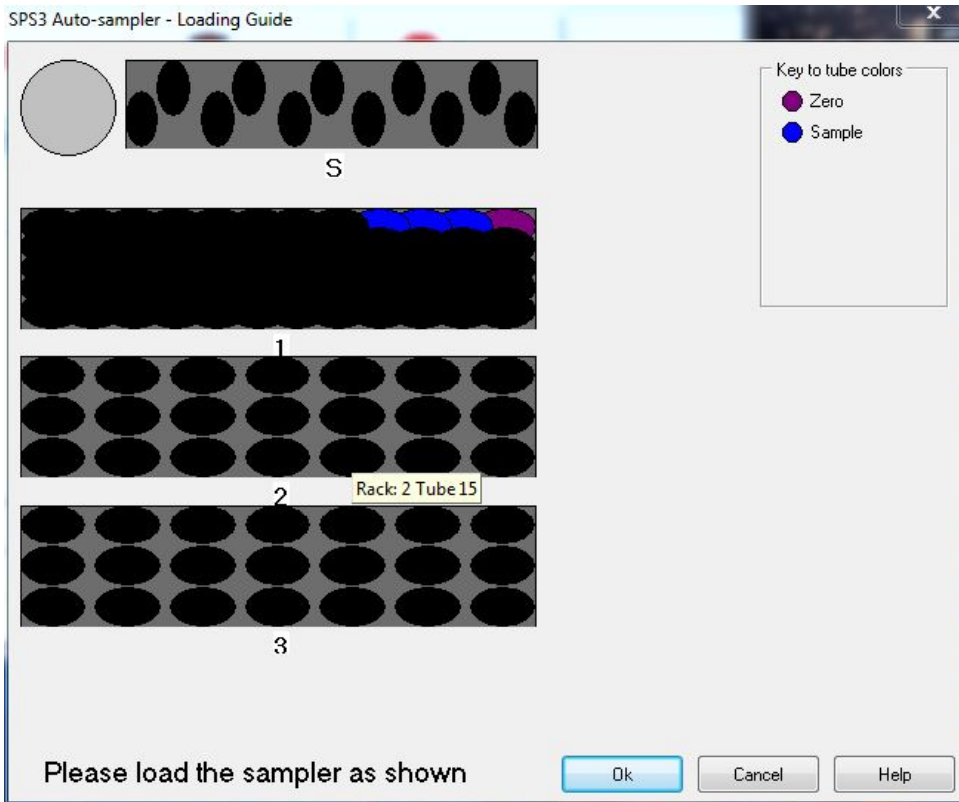
Running samples

1. Prepare samples according to the protocol outlined in the *Cary Spectrophotometer User Guide* and let the machine warm-up for a couple of hours at the correct wavelength for the analyte in question.
2. Click on **START** in the main Advanced Reads window.
3. A window will pop-up showing the samples entered in the previous. Click **OK**.
4. Save the data to a file for later viewing.

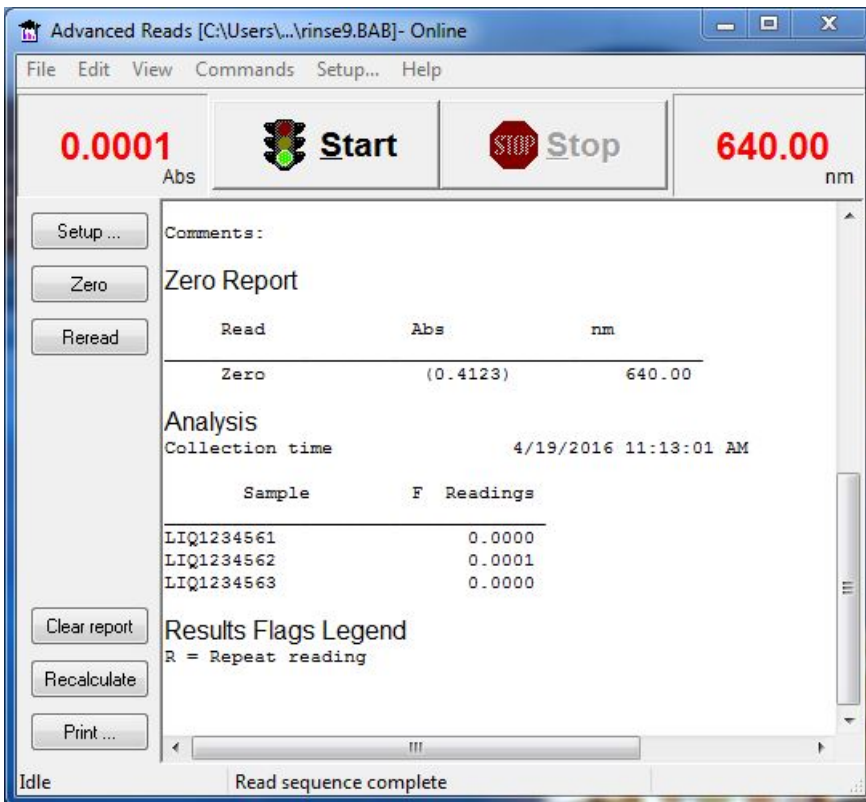
Sample Selection



5. View where the samples need to go. Click **OK**.



6. View the results in real-time.



7. Save results to a .csv file:

1. Select File -> Export report (*.csv)

2. Enter the location/file name.

8. Copy/paste into calibration spreadsheet for manipulation and subsequent use in *Spreadsheet Uploader*.