

Remotely connecting to a LabQuest

1. Turn on LabQuest.
2. Select the WiFi icon in the lower right-hand side of the screen.
3. Ensure that the LabQuest connects to the NETGEAR50 router. Note the Data Sharing Source Address number.
4. On a laptop computer (personal or departmental), connect to the NETGEAR50 router. Note that this router is not connected to the internet.
5. Open a web browser on the laptop computer and type in the Data Sharing Source Address number into the web address bar.
6. Once you press enter, you should see a blank data screen.

Setting up a LabQuest for a Kinetic Assay

1. Press the home button on the lower right-hand side of the screen.
2. Press the LabQuest App button.
3. Press the **Mode:** button on the right-hand side of the screen.
4. From the drop-down menu on the top of the screen, select Time Based.
5. Enter the rate or interval that you want datum points to be collected.
6. Enter the duration of the assay that you want.
7. Check to make sure that the number of samples to be collected makes sense.
8. Select okay.
9. Press the red box and select Change Wavelength.
10. Change the wavelength to the desired value.
11. Press the red box and select Calibrate Spectrometer.
12. Blank as desired.

Collecting and Managing Data

1. At the moment that you add the enzyme, press play and start your 20 seconds of mixing. You will want to watch the room clock to make sure that you mix for a full 20 seconds but not longer. Make sure that you do not introduce air bubbles into your assay solution. The instrument will collect an initial time point that you will discard when you work up your data. The solution is not mixed and your pipet tip will be in the way for that initial reading. The second and all subsequent readings should be good. The data should be appearing on both LabQuest and the laptop computer.
2. You may press the Stop button at any time to end the assay.
3. On the laptop browser screen, press the Export button on the top right-hand side and select Download data.
4. Name your file systematically and well. You are going to have many files. Download as a CSV file.
5. Wash the cuvette vigorously and well.
6. When you are ready for another assay, press the meter icon on the top left-hand side of the LabQuest screen. Re-blank the spectrometer.
7. When you press play to start the assay, select Discard. Do not store your runs on the LabQuest unless you want it to crash. Wait for the zero to show up in the lower right-hand time box before you add enzyme.
8. After you have collected all of your assays if you are using a departmental laptop, switch the network connection for the laptop computer to BCNet and send the files to yourself.