

The Nanodrop is shared equipment among research and teaching labs, so be mindful of other users' time, and only use consumables from our lab ( tips).

Materials:

- Protein samples
- Nanodrop device
- Container with ice
- 10 L micropipette with tips
- Kimwipes
- Vortex mixer \*
- Single-speed minicentrifuge \*

Procedure:

1. If samples are frozen, start here: thaw them and keep on ice. If you are continuing directly from protein isolation, proceed to step 4.
2. Briefly vortex thawed samples.
3. Briefly centrifuge the samples in the single-speed minicentrifuge, then place on ice.
4. Turn on the PC next to the Nanodrop, and open the "NanoDrop 2000/2000c" software.
  - a. There will be a series of clicks from the Nanodrop if it is operational.
5. Click the "Protein A 280" button.
6. : do not immediately click "OK" at the first prompt: first pipette 2 L of MilliQH<sub>2</sub>O onto the Nanodrop detector, lower the arm, then click "OK".
7. After some clicking, the instrument is normalized. Lift the arm and gently wipe away the water with a kimwipe.
8. Place a new 2 L aliquot of MilliQH<sub>2</sub>O onto the detector, lower the arm, and click "Blank" (in the upper left corner of the screen).
9. After the instrument is done, lift the arm and gently wipe away the water with a kimwipe.
10. Pipette 2 L of sample onto the detector, lower the arm, and click "Measure"