Nanodrop

Introduction

Use the nanodrop to measure the DNA concentration in a sample.

Materials

- The DNA to measure
- Buffer EB (Elution Buffer)
  - Usually found at the Nanodrop station.

Procedure

Blank the Nanodrop

1. If it's not running, start the **Nanodrop 2000** software. Select "Nucleic Acids."
2. Ensure that the **Type** drop-down box on the right-hand side reads **DNA**.
3. Ensure that the **Use cuvette** box on the left-hand side is **off**.
4. Raise the Nanodrop arm.
5. Squirt a Kimwipe with a little water and **gently** wipe off both the measurement surfaces (the pedestal and the light aperture.)
6. Use a dry Kimwipe to **gently** wipe off both measurement surfaces.
7. Pipette **1.5 ul** of **Buffer EB** onto the pedestal.
8. Gently lower the Nanodrop arm.
9. Click the **Blank** button. Wait a few seconds for the instrument to blank.

Measure your samples

10. **Gently** wipe off both measurement surfaces.
11. Pipette **1.5 ul** of your sample onto the pedestal.
12. Lower the Nanodrop arm.
13. Click the **Measure** button.

14. **Record the concentration on the side of the tube and in the plasmid's notebook page.**

15. **Gently** wipe off both measurement surfaces.

    You do not need to use water to clean the surfaces between measurements; the measurement surfaces are hydrophobic and there is very little sample careover.

16. Repeat steps 11-15 for each sample.

Clean the Nanodrop

17. Squirt a little water on a dry Kimwipe and wipe off both measurement surfaces.

18. Use a dry Kimwipe to wipe off both measurement surfaces.

19. **Lower the arm of the Nanodrop before walking away from the instrument.**