**Nanodrop Lite Protocol**

*Updated: 1.24.18 SMB*

**Purpose:**

To get a rough estimate of the concentration of DNA in your extraction. This is s good initial quality control step, but more precise measurements are needed to know how much DNA (not other types of nucleic acid) is in your sample and whether the DNA has high molecular weight.

**Quality Control:**

* Wear nitrile gloves and lab coat.

**Equipment needed:**

* **Nanodrop lite**
* **1-10ul pipette + tips**
* **Kimwipes**
* **DNA to be quantified**
* **Elution buffer**

**Protocol**

1. Use a kimwipe wetted with 70% cleaning ethanol to clean the loading platform and arm of the nanodrop lite
2. Plug in machine
3. Select “**DNA**”
4. Select “**dsDNA**” for regular double stranded DNA extraction
5. **Load 1-3ul of the elution buffer** you used in your extraction onto the loading platform.
6. Close arm and press **blank**
7. Once measurement is complete, wipe away buffer with a kimwipe, and **load 1-3ul of buffer**
8. Close arm and press **confirm blank**
9. Wipe away buffer with kimwipe and **load 1-3ul of your sample**
10. Close arm, press **measure**, and record values in your notebook
11. Wipe away sample, and repeat.
12. Make blank measurements every 7-10 samples
13. When you are done use a kimwipe wetted with 70% cleaning ethanol to clean the loading platform and arm of the nanodrop lite
14. Unplug machine

**Health and Safety Warnings**

* Wear nitrile gloves, lab coat, and standard PPE
* Refer to SDS for safety warnings associated with the type elution buffer you used in your samples