Title	Nanodrop usage		
Protocol Number	MB21004	Written by	Duha A.
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Introduction

The nanodrop is a device that is used t o quantify the nucleic acid (DNA/RNA) or protein content of a sample using the principles of spectrophotometry. The major advantage of the nanodrop is that it **only** requires 1-2uL of sample.

To use the nanodrop, **follow these steps**:

1. Clean the nanodrop before using it:
    a. Put 2uL of water on the pedestal and close the arm. Leave the water in for about a minute. Wipe the pedestal and arm with lent free paper (Kimwipes)
2. Blank the nanodrop by pipetting 2uL of your blank solution* onto the pedestal. Close the arm, click 'measure' on the PC's screen. Once the measurement is complete, wipe off the blank.
3. Pipette 2uL of sample into the pedestal, close the arm, press 'measure' on the PC's screen. Once the measurement is complete, wipe off the sample.
    a. Record the concentration (ng/uL), the 260/230 and 260/280 ratios of your sample.
    b. Inspect the graph (you should have a single peak, multiple peaks or irregular graph are suggestive of the presence of contaminants)
4. Repeat step 3 for all your samples.
5. After measuring all your samples, clean the nanodrop by repeating step 1.

Note: Ideally, 2 uL of sample are used for nanodrop measurements, however, if needed, 1uL of sample can be used instead

*****Blank solution is the buffer/solution that your sample is dissolved in, it contains no sample. It normalizes the content of your sample; you are measuring DNA/RNA/ protein only.