

**iGEM TU/e 2017**  
Biomedical Engineering

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## NanoDrop

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# 1 NanoDrop

**Estimated bench time:** -

**Estimated total time:** 5 minutes start-up, 2 minutes per sample

**Purpose:** Determine the concentration of DNA samples.

You are working with DNA, so it is essential to work with gloves at all times to protect your plasmids from DNase activity.

## 1.1 Materials

- Autoclaved dH<sub>2</sub>O
- dH<sub>2</sub>O
- DNA samples
- Fiber-free tissues
- NanoDrop spectrophotometer
- Pipettes and tips

## 1.2 Setup & Protocol

- Start the NanoDrop spectrophotometer.
- Select the DNA measurement 'Nucleic Acid' in the NanoDrop menu.
- Clean the surface of the NanoDrop with dH<sub>2</sub>O and a fiber free-tissue.
- Perform a calibration and blank measurement by entering one drop of 2 µl autoclaved dH<sub>2</sub>O.
- Clean the surface again and place 2 µl per sample on the NanoDrop and measure the concentration. Write down the concentration (possibly on cryo-babies to stick on the Eppendorf tube containing your DNA sample).