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DNA Concentration Measurement (Protocol for Thermo Scientific NanoDrop™ 1000 Spectrophotometer)

DOI

<https://dx.doi.org/10.17504/protocols.io.79khr4w>

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Protocol status: Working

We use this protocol and it's working

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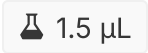
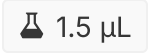
Abstract

Protocol adapted from the NanoDrop 1000 Spectrophotometer V3.8 User's Manual.

Materials

TE Buffer or MQ Water

DNA Sample

- 1 Open the ND-1000 V3.8.1 Program using the computer (the computer should be connected to the Nanodrop apparatus).
- 2 Click on the corresponding application module (e.g., Nucleic acid to determine the concentration and purity of nucleic acid).
- 3 Open the sampling arm and load a blank sample (e.g., TE Buffer, MQ Water, etc.).

- 4 Close the sampling arm on the machine to cover the blank sample.
- 5 Click "OK" to read the blank.
- 6 Open the sampling arm and clean the blank off the upper and lower pedestals using a Kim Wipe.
- 7 Load your DNA or RNA sample and close the sampling arm.

- 8 Select the sample type in the program (e.g., DNA or RNA).
- 9 Click "Measure".
- 10 When finalized, read the 260/280, 260/230 and concentration (ng/µL) measurements.
- 11 Clean the nucleic acid sample off of the upper and lower pedestals using a Kim Wipe.
- 12 Repeat for all samples.
- 13 Close program.

