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

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1 Works for me dx.doi.org/10.17504/protocols.io.79khr4w

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ABSTRACT

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

MATERIALS TEXT

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.).
1.5 µl

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.
1.5 µl

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.