PROTOCOL OF DETERMINING DNA/RNA/OLIGO NUCLEOTIDE CONCENTRATION

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1. Turn on the D2 lamp of UV-2100.
2. Prepare 300ul sample (often 1:50—100 dilution).
3. Adjust the wavelength (260nm).
4. Add 300ul ddH_2O into a cuvette and place it in the right position of the chamber.
5. Press the button “100% T” for balance.
6. When it shows “0.00”, replace ddH_2O with the sample (using the same cuvette) and read OD.
7. Between two samples, it is not necessary to wash the cuvette.
8. Turn off D2 lamp immediately after finished.
9. Clean the cuvette with ddH_2O, 70% and 100% EtOH respectively.
10. The formula is:

DNA Concentration = OD X 50 X D.F. = ? ug/ml

RNA Concentration = OD X 30 X D.F. = ? ug/ml

Oligo Concentration = OD X 20 X D.F. = ? ug/ml