

# SpeedVac

**Aim:** To concentrate the given DNA sample.

**Materials:**

1. SpeedVac machine
2. DNA Samples
3. 1.5mL microcentrifuge tubes
4. Nanodrop spectrophotometer
5. Pipettes and pipette tips

**Procedure:**

There is no standard protocol for concentrating DNA mixture, hence we can follow the steps to do experiments on a trial and error basis.

1. Be ready with your samples (samples in a 1.5mL microcentrifuge tube is recommended) to be concentrated.
2. Open the lid of the speedVac device and put your samples with an opened cap in speedVac. Close the lid of SpeedVac.
3. Ensure that the lid is closed and set the parameters (temperature and centrifuge speed) with respect to your samples. (we did it for 40°C, 1500RPM for 10min with 50microL DNA samples.)
4. Set time on a device before you start the vacuum instrument and speedVac device.
5. Start the speedVac device followed by a vacuum instrument.
6. Once its done the speedVac device will give a beeping sound.
7. Again check your DNA conc in the sample using a nanodrop spectrophotometer.
8. And we can repeat the experiment until we get the desired conc of the sample.