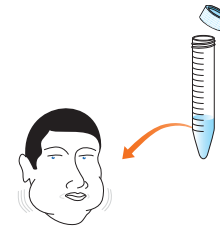
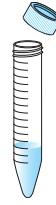
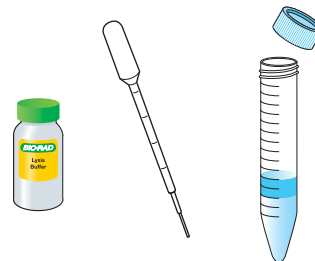


Quick Guide for DNA Extraction and Precipitation

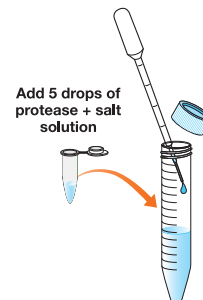
1. Obtain 15 ml tube containing 3 ml water from your instructor. Label the tube with your initials.
2. Gently chew the insides of your cheeks for 30 seconds. It is NOT helpful to draw blood!
3. Take the water from the 15 ml tube into your mouth, and swish the water around vigorously for 30 seconds.
4. Carefully expel the liquid back into the 15 ml tube.



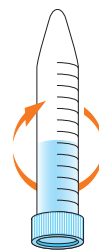
5. Obtain the tube of lysis buffer from your workstation, and add 2 ml of lysis buffer to your tube.
6. Place the cap on the tube, and gently invert the tube 5 times (don't shake your tube!). Observe your tube — do you notice any changes? If you do, write them down.



7. Obtain the tube of protease (**prot**) at your workstation. Add 5 drops of protease to your tube.



8. Place the cap on your tube, and gently invert it a few times.



9. Place your tube in a test tube rack or beaker in the water bath and incubate at 50°C for 10 minutes. Remove your tubes from the water bath.

Water bath

50°C for 10 min

10. Obtain the tube of cold alcohol from your instructor or at the common workstation. Holding your tube at a 45° angle, fill your tube with cold alcohol, by adding approximately 10 ml to your tube. It will take repeated additions to add 10 ml of the cold alcohol using the disposable plastic transfer pipet.



11. Place your cap on your tube, and let it sit undisturbed for 5 minutes. Write down anything you observe happening in the tube.



12. After 5 minutes, slowly invert the tube 5 times to help the DNA, which has begun to precipitate, to aggregate.

13. With a disposable plastic transfer pipet, carefully transfer the precipitated DNA along with approximately 750 μ l to 1 ml of the alcohol solution into a small glass vial provided in the DNA necklace kit (166-2200EDU). If you are not going to make a DNA necklace, save your DNA in a flip-top tube provided in this kit.

