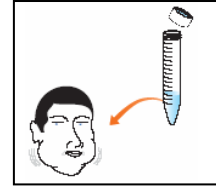


Genes in a Bottle Quick Guide

(166-2300EDU)

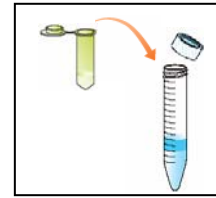
1. Obtain 15 ml tube containing 3 ml water from your materials bag. Label the tube with your initials.

2. Take the water from the 15 ml tube into your mouth (don't swallow!) – chew on the inside of your cheeks while you swish the water around for 30-60 seconds.



3. Carefully expel the liquid back into the 15 ml tube.

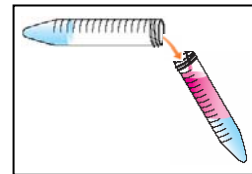
4. Open the colored micro test tube with the Protease, Salt and Lysis buffer. Pour entire contents into 15 ml tube with cells



5. Place the cap on the tube, and gently invert your tube 5 times (don't shake it!). Observe your tube — do you notice any changes?

6. Incubate for 5 – 10 minutes

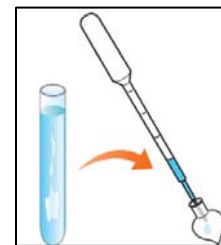
7. Hold your tube at a 45° angle and slowly fill tube with alcohol to about 14 ml mark by gently pouring the alcohol down the inside of the tube with your cells.



8. Let stand undisturbed for a few minutes at room temperature.
What do you see?

9. Cap your tube, and very gently tilt tube on its side then turn upright about 10 times until both the water and alcohol phases are mixed and the DNA comes out of solution.

10. Using a disposable plastic transfer pipet, carefully transfer as much of your DNA and as little alcohol into your glass vial. Fill the vial no more that 2 mm from the top of the neck.



11. Firmly push the trimmed plastic stopper cap into the neck of the vial to seal the glass vial.

12. Slip the waxed cord through the silver cap.

13. Apply a small drop of super glue to the inside of the silver cap. Press onto vial and allow to dry for several minutes.

