

DNA extraction protocol - saliva

In this simple protocol we will be using household items to extract DNA from your own saliva sample.

Materials + Tools

- 50ml falcon tubes
- Saliva
- Dish soap
- Table salt
- Contact lense solution
- Absolute / 70% ethanol
- p20 pipette and tips

Instructions

- 1. Spit into the falcon tube until you have about 10ml of saliva. The saliva is laden with cells, shed from your cheeks and mouth lining, which are full of DNA.
- 2. Add a few drops of dish soap. This will break open the cells, a process called "lysing."
- Add a tiny splash of contact lense cleaning solution. This will clean up some of the proteins that have spilled out of your cells alongside your DNA.
- 4. Add a pinch of salt. This causes the DNA to start clumping together.
- 5. Swirl the tube to mix the ingredients.
- 6. Gently fill the tube to 30ml with the high-proof alcohol, which should sit in a layer on top of the mixture.
- 7. Use a pipette to spool up the cloudy, snot-like material that has formed in the glass.

This is your DNA.