

Protocol to isolate the DNA of a tomato

What do we need?

- Tomato
- Salt
- Water
- Detergent
- Ethanol (or whisky, vodka)
- 3 bowls
- Knife (plastic knives for the kids)
- A whisk
- Microliter pipette and pipette tips
- Eppendorf tubes
- Filters (coffee filters)
- Funnel

How to isolate DNA?

1. Cut a tomato in pieces and put them in a bowl.
2. Make a solution of (in another bowl)
 - 5 ml Detergent
 - 1 teaspoon of salt
 - 45 ml water
3. Add the solution to the pieces of tomato.
4. Use the whisk to mix the solution with the tomato pieces.
5. Put the filter in the funnel and pore the tomato – solution mix in the funnel. The filtrate contains DNA.
6. To make DNA visible:
 - Pipette 0.5 ml of the filtrate in a Eppendorf tube
 - Add 1 ml of ethanol
 - Close the Eppendorf tube
 - Turn the Eppendorf tube with a **gentle** movement up and down

The red color pellet (looks like snot) is DNA.