



## ISOLATE DNA OUT OF A TOMATO

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### **Material**

- Tomato
- NaCl
- Detergent
- Water
- Isopropanol (99,7%), vodka or whisky
- 2 beakers (200 ml)
- Measuring cup (50 ml)
- Sharp knife and cutting board
- Blender
- Pipette (2 ml)
- Eppendorf tube
- Paper towels
- Funnel

### **Preparation**

1. Cut 1/3 tomato in tiny pieces and bring it in a beaker
2. Make a solution of:
  - 5 ml detergent
  - 1 coffee spoon NaCl
  - 45 ml water
3. Put the pieces of tomato in the solution
4. Blend it shortly (10-15 seconds)
5. Make a filter of paper towels and insert it in the funnel. Filter the tomato solution and collect it in a second beaker (= filtrate). The filtrate contains the DNA.
6. Visualizing DNA:
  - Pipet 0,5 ml filtrate into an eppendorf tube
  - Add 1 ml alcohol (isopropanol, vodka or whisky)
  - Gently turn around, do not shake
  - You can see the DNA as a red mucous web (the red colour comes from a tomato pigment, that sticks to the DNA)

