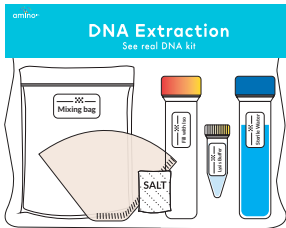


DNA Extraction Kit: extract DNA from fruit

Instructions

Kit Contents



- (1) 10 mL tube sterile distilled water
- (1) 1.5 mL tube lysis buffer
- (1) Ziplock-style 'mixing' bag
- (1) filter
- (1) 0.3 g packet of electrolyte (salt)
- (1) 10 mL tube to measure & hold isopropyl alcohol (91% +)

You Provide

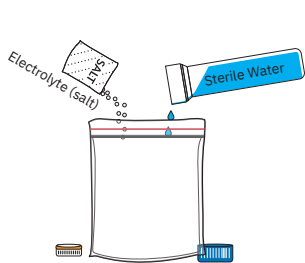


- (1) strawberry, fresh or frozen*
- (1) plastic or glass cup/mug
- ~9 mL isopropyl alcohol (91% or above is best, but 70% can work, especially if you use it cold)

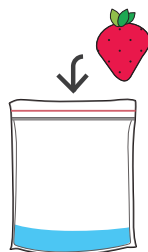
* if you have a strawberry allergy, or do not have any, you can use a piece of kiwifruit or banana with similar results.

Watch a video of a scientist completing & explaining the DNA extraction experiment: www.amino.bio/videtutorials-DNA

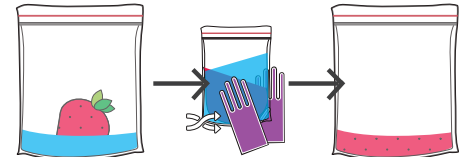
Remember! Wearing gloves when doing any science experiments is good practice. Have a look at our Safe Science guidelines for more safety information: www.amino.bio/safe-science



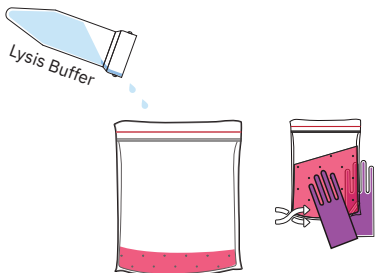
1. Add the sterile distilled water and electrolyte (salt) to the mixing bag



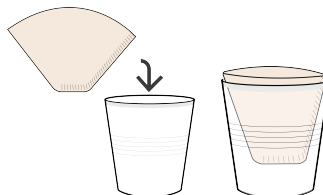
2. Find a nice strawberry and add it to the bag



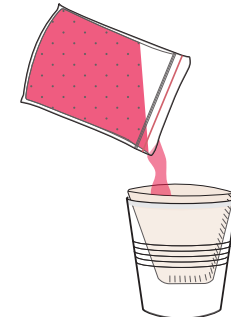
3. Mash up the strawberry into a slurry by pressing the bag



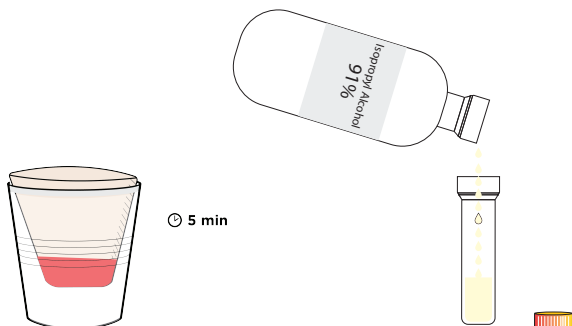
4. Add the lysis buffer to the strawberry mash and mix



5. Place the filter in the a clean cup



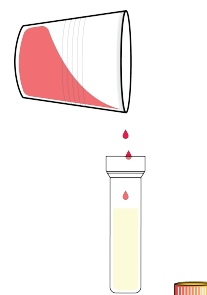
6. Pour the strawberry mix into the filter



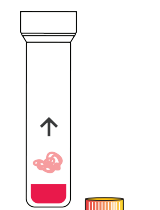
7. Wait 5 minutes to let liquid pass through the filter



8. Add ~ 9 mL of isopropyl alcohol to the tube provided



9. Pour a small amount of filtered liquid into the isopropyl alcohol



10. Over the next 5 minutes, watch the DNA precipitate and float up to the surface!



Want to learn more about DNA and how it is used in biotechnology? Try the free *What is DNA?* simulator! www.amino.bio/vbioengineer