

Your Experiment

1. Remove the green leaves from the strawberries.



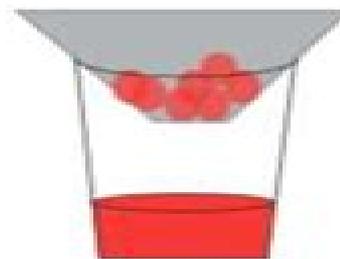
2. Crush the strawberries as much as you can. This starts to break open the cells to release all the DNA inside



3. Make your lysis buffer: To 30 mL water add 2 tsp salt and a good squirt of washing up liquid. Mix well and add this to the strawberries and crush a bit more (5 minutes!). This breaks down any 'tough' cells left and leaves kind of alumpy 'Strawberry DNA juice'



4. Attach the coffee filter (or kitchen roll) to the cup with an elastic band. Add your strawberry mixture and filter out the lumpy bits. It is important to just take the 'juice' here! Throw away the filter and lumpy bits.



5. Carefully pour in an equal volume of cold alcohol (it is best if you add slowly down the side of the cup). You should then see DNA as a white, stringy, material appear in the cup. If you want, you can fish out the DNA using a wooden spatula (or fork) for a closer look.



Vs the Lab

I usually extract the DNA from either human cells or bacteria in my lab work. The process itself is similar to the strawberry extraction, just with some modifications to suit the cells, and extra steps at the end to collect 'pure' DNA.

The lysis buffers I use in the lab are pre-prepared mixes of different salts and detergents (the 'active' ingredient of washing up liquid). And the entire experiment is carried out using much smaller volumes of liquid in tiny test tubes (1.5 mL maximum).

To filter out the cell waste ('lumpy bits'), I spin the cells in a centrifuge at high speeds. Instead of filtering 'top down' this method pulls the waste to the bottom of the tube, and I would then collect the rest of the DNA mix on top.

In my experiments, the DNA is first attached to a filter and washed. Then I add a pure version of the same alcohol and spin these filters at high speed (like above). This pulls the pure DNA into a test tube. I would then wash the DNA and keep it in the freezer until I want to use it!

Fruit Dna Extraction Lab Conclusion

Anthony S. Fauci



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