



# Kiwifruit DNA Extraction

## Instructions

1. Fill a cup 1/3 full of water. Add half a teaspoon of salt and 3 teaspoons of dishwashing liquid. This is your special extraction liquid.
2. Peel one Kiwifruit and dice it up into small pieces.
3. Put the fruit pieces into a self-sealing plastic bag and push out all the air. Seal the bag. Using your fingers, squeeze and smash the Kiwifruit for 2 minutes.
4. Open your bag and add nine (or a few more) teaspoons of your special extraction liquid. Push out all the air from the bag and reseal it. Squeeze the mixture with your fingers for 1 minute.
5. Place a filter into the plastic measuring jug. Pour your fruit mixture from the bag into the funnel. Let the liquid drip through the filter into the jug (about 3min).
6. Half fill a see-through container "A" with the liquid you have collected in the jug. You need about 10-15mL.
7. Add the same volume (10-15mL) of cold Methylated Spirits to the container by tilting it slightly and running the Meths gently into the container. Try not to mix the two liquids.
8. You should be able to see the Meths floating on top of the fruity liquid. Leave the mixture on a bench to settle for about 5 minutes.
9. Can you see the white/clear Kiwifruit DNA appearing in the meth's layer?  
Use your dropper to gently investigate without mixing the layers.
10. Gently scoop/suck up the Kiwifruit DNA from the purple Meths layer and put it in a second container. Make sure you don't include any of the green layer underneath.

**Well done! You have successfully extracted DNA from Kiwifruit!**

## Ingredients

- Kiwi Fruit (or another type of soft fruit or vegetable)
- Chopping board
- Knife and peeler
- Zip lock plastic bag
- Measuring spoon
- Dishwashing liquid
- Salt
- Water
- Medium-sized plastic container, at least 100mL capacity (x2)
- Dropper
- Filter
- Ice bath/Freezer
- Methylated Spirits
- Measuring container
- Screw top vial