

BIO ART LAB: HARDWARE . SOFTWARE . WETWARE

DNA FROM KIWI FRUIT

INGREDIENTS:

- Kiwi fruit
- Lysis solution-
 - 12gm / 1 tbsp salt
 - 40ml / 3 tbsp detergent
 - 450ml / 1 pint water
 - 20ml isopropanol or rubbing alcohol
- Bowl of hot water - pre-boiled

MATERIALS & EQUIPMENT:

- Measuring tool
- Large jug or bowl
- Mixing bowl
- Pyrex bowl
- Sieve
- Knife
- Fork
- Glass jar or shot glass
- Tooth pick
- Gloves (for adding the methanol)

METHOD:

1. Dissolve the salt in 450ml of water, then gently stir in the detergent, allowing minimal foaming.
2. Remove the skin of the kiwi fruit and chop the flesh into small cubes.
3. Place the flesh into a bowl and mash down with a fork for a minute.
4. Add 100ml of the lysis solution to the mashed kiwi fruit.
5. Place and pour hot water in the pyrex bowl. Stand for 15 minutes.
6. Strain the mixture using a sieve and retain the green liquid.
7. Pour 50 ml of the green liquid into a small glass jar or a shot glass.
8. Dribble isopropanol down the edge of the glass to reveal the DNA.

The visible floaty white blob in the solution contains the DNA.
Pick out some of this stringy DNA with a tooth pick.

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