

# Strawberry DNA Extraction

## Purpose

To extract DNA from the fruit of a strawberry plant

## Materials:

### • Equipment:

1. 1 heavy duty zip-lock baggie
2. 1 strawberry (fresh or frozen and thawed)
3. cheesecloth
4. funnel
5. 100 ml beaker
6. test tube
7. wooden coffee stirrer

### • Reagents:

1. DNA extraction buffer (One liter: mix 100 ml of shampoo (without conditioner), 15 g NaCl, 900 ml water **OR** 50 ml liquid dishwashing detergent, 15 g NaCl and 950 ml water)
2. Ice -cold 95% ethanol or 95% isopropyl alcohol

## Procedure:

1. Place one strawberry in a zip lock baggie.
2. Smush strawberry with hands for 2 minutes.
3. Add 10 ml extraction buffer to the bag.
4. Smush again for one minute.
5. Filter through cheesecloth in a funnel into beaker.
6. Pour filtrate into test tube so that it is 1/8 full.
7. Slowly pour the ice-cold alcohol into the tube until the tube is half full.
8. At the interface, you will see the DNA precipitate out of solution and float to the top. You may spool the DNA on your glass rod or pipette tip.



