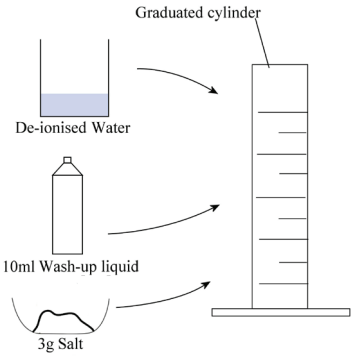
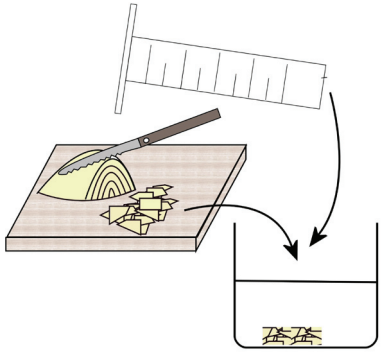
4.10 To isolate DNA from a plant tissue

1



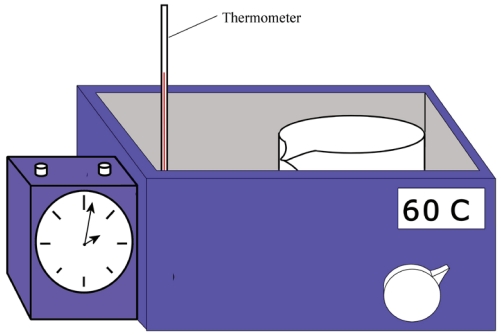
Add 10 ml washing-up liquid and 3 g salt to a graduated cylinder. Make up to 100 ml and stir.

2



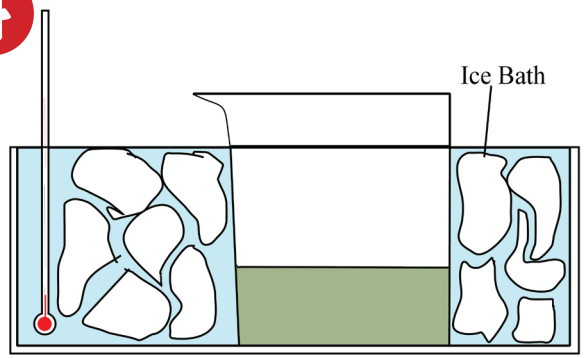
Add chopped onion to a beaker. Pour in the salty washing-up liquid solution and stir.

3



Stand the beaker in a water bath at 60^{o}C for 15 minutes.

4

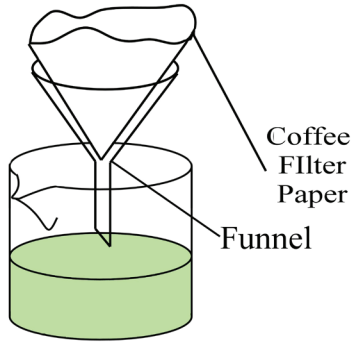


Cool the mixture by standing the beaker in an ice bath for 5 minutes.

5

Blend the mixture for no more than 3 seconds.

6



Filter the blended mixture through coffee filter paper.

Always remember – Leave time to tidy up

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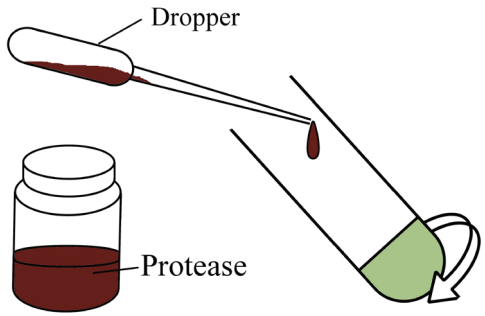
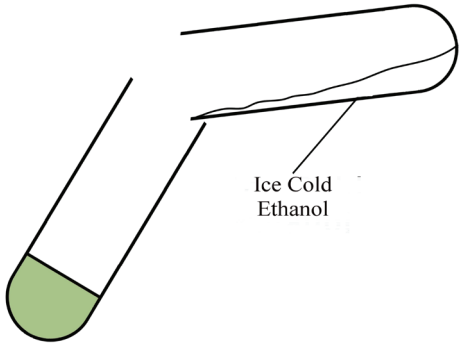
7



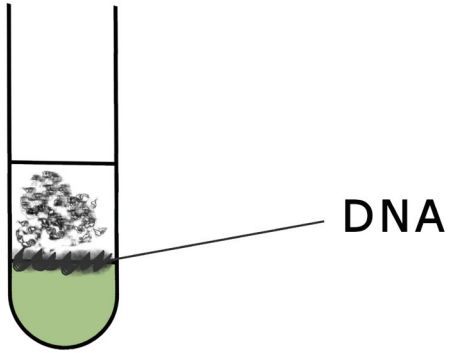
Add 2-3 drops of protease enzyme to 10 ml of the onion extract.

8



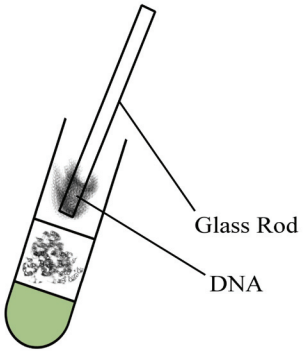
Very carefully, pour 10 ml of ice cold ethanol onto the surface of the onion extract.

9



DNA forms at the interface of the ethanol and extract.

10



Draw the DNA out of the solution by wrapping it around a glass rod.

Always remember – Leave time to tidy up

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