

COOK BIOLOGICAL II: Investigating plant-water relations

Objective

- Shows how to carry out an investigation to determine the osmotic potential and therefore water potential of plant epidermal cells.

Safety

- Tissue work with glassware, mounting needles and handling equipment.

Specifications linked

- Practical techniques (3, 4, 5)
- CPAC1 for 1A, 1B, 2B, 4A, 4B

Procedure

Before you start this practical make sure that you understand the terms ‘turgid’ and ‘plasmolysed’. One easy way to see what cells in these conditions might look like under a microscope.

When plant cells are placed in a range of solutions, the concentration that has the same osmotic potential as the cell sap is just concentrated to cause sufficient water loss so that the plasma membrane begins to separate from the cell wall (incipient plasmolysis). It is difficult to measure this because cells within plant tissue plasmolyse at different rates. Instead we use the simple potential of the solution that causes visible plasmolysis in 50% of the cells.

1. Take ten tiny sections of the available plant tissue. Tissue 1 cm² is a suitable size. Tissue 1 cm² should only be one cell thick to allow the cells to be examined easily.
2. Label six watch glasses with the different concentrations of salt solution, including 0.0 mol dm⁻³. Transfer some of each salt solution into the microsome watch glass with a pipette. Make a piece (one of the five tissue sections) on each of the watch glasses and leave for 20 minutes.
3. Remove each tissue section with forceps and place in a slide already marked with the appropriate concentration. Put a drop of the corresponding solution on the slide and leave the tissue on it.
4. Cover each section with a coverslip and observe under the microscope.
5. Observe 10 cells and record how many of them show plasmolysis. Record your findings in a suitable table. Repeat a solution to record the percentage of cells showing plasmolysis.

Student lab. procedure

- Tissue is a suitable size of tissue to use, as it is unlikely to fold. It is important that the tissue has only a single cell layer to allow the cells to be examined easily. Under the microscope, plasmolysed cells should be visible at higher concentrations. If not, cells can be impregnated with iodine solution.
- The prepared salt solutions may be used at some time.
- Careful labelling of the watch glasses and microsome watch with the concentration being used prevents confusion. Labeling the tissue on a drop of the solution prevents the tissue folding.
- 20 cells is a suitable number to count individual students to estimate the osmotic potential from their groups. However, each cell accounts for 5% of the sample in the final calculations. Including statistics. Students should comment on this in their evaluation. A larger volume used would be better, or additional impregnation of cells as plasmolysed or not to correct calculation and there is no alternative. This may reduce accuracy.
- Tables used to display results should have the independent variable (concentration) on the first column and the number of cells showing plasmolysis in the column to the right. The percentage of the cells that show plasmolysis should be in the far right column for each concentration. There is a good opportunity to remind students of the bottom line to tabulate data.
- Students should be warned of the dangers of damaging microscopes.

Core Practical 6 Investigate Plant Water Relations

Edexcel

Tao Wei

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape with a gradient, partially overlapping the bar's end.

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