Cell Wall Constituents and Cell Inclusions

Experiment 2 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To distinguish cell walls and major inclusions on prepared plant slides

Principle

Plant-cell walls provide support; visible inclusions may include starch grains, crystals, oil bodies and other stored or deposited material.

Requirements

- Instructor-provided labelled diagrams, traces or data for this activity.
- Calculator, graph paper or spreadsheet, and the activity record.

Procedure

1. Prepare

Identify the supplied material, teaching objective and observation format.

2. Observe

Compare wall outline, storage bodies and crystal shape with labelled prepared material.

3. Record and explain

Draw or tabulate the observed features. Explain a conclusion supported by those observations and one limitation.

Observations and Record

Record item	Entry
Activity / material identifier	_____
Measurement or visible feature	_____
Comparison / calculated outcome	_____
Interpretation and limitation	_____

Result

The recorded finding is ____; the supporting observation or calculation is ____. The main limitation is ____.

Precautions

- Use the supplied teaching material; distinguish a measured observation from an assumed value.
- Keep units, axes, labels and measurement conditions consistent.
- Record limitations and seek instructor review before applying a conclusion to a live case.

Viva Questions and Answers

1. What is the main endpoint?

Distinguish cell walls and major inclusions on prepared plant slides

2. Does one observed result prove a general conclusion?

No. Controls, repeatability and the limitations of the method must be considered.

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