

OCR A-level Biology

Revision sheets

PAGE 1
ROOT TIP EXAMINATION

AIMS/INTRODUCTION

To examine the structure of the root tip.

THEORY

The root tip is the region of the root where new cells are produced. It is the site of mitosis and is therefore the most active part of the root.

EXPERIMENTAL PROCEDURE

1. Cut a section of the root tip (approx. 5mm) and place it in a solution of HCl to remove the cell wall.

2. Stain the root tip with toluidine blue to make the cells visible.

3. Mount the root tip on a slide and cover with a cover slip.

4. Examine the root tip under a microscope.

RESULTS

Diagram of a root tip showing the different regions: root cap, zone of elongation, zone of maturation, and zone of root hairs.

CONCLUSION

The root tip is the region of the root where new cells are produced. It is the site of mitosis and is therefore the most active part of the root.

PAGE 2
PHOTOTROPISM

AIMS/INTRODUCTION

To investigate the effect of light on the growth of a plant.

THEORY

Plants have the ability to grow towards a light source. This is known as phototropism. It is caused by the hormone auxin, which is produced in the shoot tip and moves down the stem. Auxin causes the cells on the side of the stem that is away from the light to elongate, causing the stem to bend towards the light.

EXPERIMENTAL PROCEDURE

1. Grow a plant in a pot with a light source on one side.

2. Observe the plant's growth over time.

3. Measure the angle of the plant's stem relative to the vertical.

RESULTS

Diagram of a plant showing the effect of light on its growth. The plant is bent towards the light source.

CONCLUSION

The plant grows towards the light source. This is known as phototropism. It is caused by the hormone auxin, which is produced in the shoot tip and moves down the stem. Auxin causes the cells on the side of the stem that is away from the light to elongate, causing the stem to bend towards the light.

PAGE 3
EXPERIMENTAL PLANTING TO INVESTIGATE MICROBIAL GROWTH

AIMS/INTRODUCTION

To investigate the growth of microorganisms in a liquid medium.

THEORY

Microorganisms can grow in a liquid medium. The growth can be measured by the turbidity of the liquid. Turbidity is a measure of the cloudiness of a liquid, caused by the presence of suspended particles. In this case, the particles are microorganisms.

EXPERIMENTAL PROCEDURE

1. Inoculate a liquid medium with a microorganism.

2. Measure the turbidity of the liquid at regular intervals.

3. Plot a graph of turbidity against time.

RESULTS

Diagram of a test tube containing a liquid medium. The liquid is cloudy, indicating the presence of microorganisms.

CONCLUSION

The microorganism grows in the liquid medium. The growth can be measured by the turbidity of the liquid. Turbidity is a measure of the cloudiness of a liquid, caused by the presence of suspended particles. In this case, the particles are microorganisms.

Required practicals / PAGs

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M Woodhall



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