



Detection of starch formed during photosynthesis



A)

Necessary materials and tools:

Microscope, potato, Lugol's solution, pipette, slides, cover slips.

Description of experiment :

Scrape out some potato. Examine it under the microscope.

Drop some brown coloured Lugol's solution onto the potato and examine it under the microscope again.

Result:

The colour of starch granules are stained violet.

Explanation:

The non-polar iodine molecules get into the amylose helix, which alters the molecular opacity (colour).

Upon heating, the weak secondary bondings split up, iodine diffuses the spiral. As a result of this, colour reaction disappears.