

Lab 4 - PLANT PIGMENTS & PHOTOSYNTHESIS

Exercise 4A: Plant Pigment Chromatography (pages 45 - 48)

READ lab introduction page 45-46.

LAB:

1. Use the chromatography bottles and add approximately 1 cm of chromatography solvent to the bottom. **CAP.**
2. Use the strips of chromatography paper, and draw a faint pencil line 1.5 cm from the bottom.
3. Use a coin to extract chlorophyll from the spinach leaves onto the pencil line. (Roll the coin across the top of the leaf over the pencil line 8-10 times using a new portion of the leaf each time.)
4. Place the chromatography strip into the chamber so that the chromatography liquid is **BELOW** the chlorophyll on your pencil line.
5. **RECAP** and do not disturb the bottle until the chromatography front is about .5 cm from the top.
6. Remove the strip & **IMMEDIATELY MARK THE SOLVENT FRONT WITH A FAINT PENCIL LINE.**
7. Measure the migration distance in millimeters (mm) of each pigment from its starting point (your first pencil line) to its highest migration point. Also measure the total migration distance for the chromatography solvent.
8. Draw Data table 4.1 into your notebook and record the migration distances and colors.

ANALYSIS:

1. Draw and complete table 4.2 and answer questions 1-3 on pages 47 & 48.

Exercise 4B: The Light Reaction of Photosynthesis

READ lab 4B introduction of pages 48 & 49.

LAB:

1. Use the sample data in Table 4.4 percent transmittance to analyze the effect of various environmental conditions on chloroplasts.

ANALYSIS:

1. Graph the results being use to label the x and y axis.
2. Write out and answer questions 1-8 on pages 52 & 53.
- 3.

Cuvette	Time (minutes)			
	0	5	10	15
2 unboiled/dark	31.5	32.7	35.7	35.2
3 unboiled/light	32.7	54.5	63.7	65.1
4 boiled/light	32.7	32.9	33.1	32.5
5 no chloroplasts/light	31.0	31.0	31.0	31.0

Write TWO SEPARATE REPORTS for lab 4. The first report will be on plant pigment chromatography, and the second will be on the light reaction of photosynthesis.

Plant Pigments And Photosynthesis Lab Report

O García



Plant Pigments And Photosynthesis Lab Report:

Whispering the Secrets of Language: An Mental Quest through **Plant Pigments And Photosynthesis Lab Report**

In a digitally-driven world where screens reign great and quick transmission drowns out the subtleties of language, the profound techniques and psychological subtleties concealed within phrases usually move unheard. Yet, situated within the pages of **Plant Pigments And Photosynthesis Lab Report** a charming fictional treasure blinking with fresh emotions, lies an extraordinary journey waiting to be undertaken. Published by a skilled wordsmith, this wonderful opus attracts viewers on an introspective journey, softly unraveling the veiled truths and profound influence resonating within the fabric of each and every word. Within the mental depths with this moving review, we shall embark upon a genuine exploration of the book is primary subjects, dissect its fascinating publishing fashion, and yield to the strong resonance it evokes heavy within the recesses of readers hearts.

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