

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

Kathy R. Pollock



Plant Pigments And Photosynthesis Lab Report:

The Enigmatic Realm of **Plant Pigments And Photosynthesis Lab Report**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Plant Pigments And Photosynthesis Lab Report** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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