

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

Terry C. Jones



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Table of Contents Plant Pigments And Photosynthesis Lab Report

1. Understanding the eBook Plant Pigments And Photosynthesis Lab Report
 - The Rise of Digital Reading Plant Pigments And Photosynthesis Lab Report
 - Advantages of eBooks Over Traditional Books
2. Identifying Plant Pigments And Photosynthesis Lab Report
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Plant Pigments And Photosynthesis Lab Report
 - User-Friendly Interface
4. Exploring eBook Recommendations from Plant Pigments And Photosynthesis Lab Report
 - Personalized Recommendations
 - Plant Pigments And Photosynthesis Lab Report User Reviews and Ratings

- Plant Pigments And Photosynthesis Lab Report and Bestseller Lists
- 5. Accessing Plant Pigments And Photosynthesis Lab Report Free and Paid eBooks
 - Plant Pigments And Photosynthesis Lab Report Public Domain eBooks
 - Plant Pigments And Photosynthesis Lab Report eBook Subscription Services
 - Plant Pigments And Photosynthesis Lab Report Budget-Friendly Options
- 6. Navigating Plant Pigments And Photosynthesis Lab Report eBook Formats
 - ePub, PDF, MOBI, and More
 - Plant Pigments And Photosynthesis Lab Report Compatibility with Devices
 - Plant Pigments And Photosynthesis Lab Report Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Plant Pigments And Photosynthesis Lab Report
 - Highlighting and Note-Taking Plant Pigments And Photosynthesis Lab Report
 - Interactive Elements Plant Pigments And Photosynthesis Lab Report
- 8. Staying Engaged with Plant Pigments And Photosynthesis Lab Report
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Plant Pigments And Photosynthesis Lab Report
- 9. Balancing eBooks and Physical Books Plant Pigments And Photosynthesis Lab Report
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Plant Pigments And Photosynthesis Lab Report
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Plant Pigments And Photosynthesis Lab Report
 - Setting Reading Goals Plant Pigments And Photosynthesis Lab Report
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Plant Pigments And Photosynthesis Lab Report
 - Fact-Checking eBook Content of Plant Pigments And Photosynthesis Lab Report
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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