



## Plant Pigment and Photosynthesis

Paper chromatography is a useful technique for separating and identifying pigments and other molecules from cell extracts that contain a complex mix of molecules. The solvent moves up the paper, which occurs as a result of the attraction of the solvent molecules to one another. As the solvent moves up the paper, it carries along any substances dissolved in it. The pigments are carried along at different rates because they are not equally soluble in the solvent and because they are attracted, to different degrees,

beta-carotene, the most abundant carotene in plants, is carried along near the solvent front because it is very soluble. Xanthophyll, another pigment, is found further from the solvent because it is less soluble in the solvent. Chlorophylls are held more tightly to the paper than the other pigments.

### Materials (per group):

Spinach leaves	chromatography solvent
1 quarter	filter paper
50 ml graduated cylinder	

### Procedure:

1. Obtain a 50 ml. graduated cylinder which has lines of solvent in the bottom.
2. Cut a piece of filter paper which will be long enough to reach the solvent (this is your thin-layer slide). Cut one end of this filter paper into a point. Draw a pencil line 1.5 cm above this point.
3. Use a quarter to remove the pigments from spinach leaf cells. Place a small section of leaf on the top of the pencil line. Use the ribbed edge of the quarter to crush the cells. Be sure that the pigment line is on top of the pencil line. You should repeat this procedure 5-10 times being sure to use a new portion of the leaf each time.
4. Place the chromatography paper in the cylinder so that the pointed end is barely immersed in the solvent. Do not allow the pigment to be in the solvent.
5. Stopper the cylinder. When the solvent is about 1 cm from the top of the paper, remove the paper and immediately mark the location of the solvent front before it evaporates.
6. Mark the bottom of each pigment band. Measure the distance each pigment moved from the bottom of the pigment origin to the bottom of the separated pigment band. Record the distance that each front moved. Depending on the species of plant used, you may be able to observe 4 or 5 pigment bands.

# Teacher Guide Plant Pigments And Photosynthesis

**Thomas Griffiths**



## **Teacher Guide Plant Pigments And Photosynthesis:**

**The Living Ocean Teacher's Guide** , *Life: The Science of Biology Study Guide* William K. Purves,Edward Dzialowski,Lindsay Goodloe,Betty McGuire,Nancy Guild,Paula Mabee,2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR [Library of Congress Catalog: Motion Pictures and Filmstrips](#)

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López-Lizárraga,2018-09-19 This book is a compilation It starts from the origins of the photosynthetic capacity of organisms with a summary of the evolution of photosynthesis This is followed by a concise description of the photosynthetic process and a discussion of the role that light nutrients and cultivation play in the photosynthetic process using examples in each case Finally the book explains future improvements in the field by applying nanotechnology to improve photosynthetic productivity explaining how crop productivity can be increased by engineering crop plants for tolerance against various environmental stresses and improving yield attributes especially photosynthetic efficiency using nanomaterials **NEET UG Biology Paper Study Notes |Chapter Wise Note Book For NEET Aspirants | Complete Preparation Guide with Self Assessment Exercise** EduGorilla Prep Experts,2022-09-15 Best Selling Book in English Edition for NEET UG Biology Paper Exam with objective type questions as per the latest syllabus Increase your chances of selection by 16X NEET UG Biology

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