



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 band 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

Mohammad Pessarakli



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 Life Study Guide David E. Sadava,Gordon H. Orians,Craig Heller,William K. Purves,2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer **Resources for Teaching Middle School Science** Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter

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