

LAB: PAPER CHROMATOGRAPHY

Paper chromatography is one way to help identify what kinds of components are present in a solution that contains unknown substances. For example, if you have a water solution of two different dyes dissolved in water, and one of them is yellow and the other dye is blue, the mixture might look as if it contains a green dye, but running a paper chromatogram might reveal that the solution actually contains a mixture of two dyes, a yellow and a blue one.

PROBLEM: How many colors separated from each color of ink?

MATERIALS: filter paper with hole in center filter paper wick
cup of water water soluble pens

PROCEDURE:

1. IN PENCIL, somewhere close to the edge, write your names and period.
2. Draw IN PENCIL a circle of about 3 cm diameter centered as close as you can get it so that the hole ends up about in the middle of the circle.
3. ON the circle, IN PENCIL, draw an X for each pen/ marker in the cup.
4. Use the code below to mark IN PENCIL a code for each X:

Flair Red	FR	Crayola Red	CR	Visa-Vis Red	VR
Flair Black	FBK	Crayola Black	CBK	Visa-Vis Black	VBK
Flair Green	FG	Crayola Green	CG	Visa-Vis Green	VG
Flair Blue	FB	Crayola Blue	CB	Visa-Vis Blue	VB

Following the code system above, create a code for the two other colors of flair pens in your cup. Label the remaining two X's with the appropriate code.

5. Use each pen to make a small (not microscopic! Large enough to be seen easily!) solid dot on each corresponding X. When finished show your instructor for approval.
6. Fill the empty plastic cup on your table with water until it is almost to the full to the top. It is very important to dry the rim of the cup with a paper towel before proceeding any further.
7. Fold or roll filter paper triangle into a cone. Place the pointed end of the cone into the hole of the dotted piece of filter paper prepared above. The cone will serve as a water wick.
Place the spotted piece of filter paper over the cup so that it rests on the rim with the flat end of the wick extending down into the water.
9. The water will travel up the cone to the filter paper, wetting the filter paper in a circular pattern. When the water reaches the ink spots, the radial chromatography pattern begins to develop.
10. Allow your chromatogram to develop until the water has spread to about 1 cm from the outer edge of the filter paper. This takes about 5 to 10 minutes depending on the size of the filter paper.
11. Remove the filter paper and allow it to dry. While it is drying, record in the data table the colors each ink separated into and answer the Post Lab Questions.
12. Clean your lab area, pour the water down the sink, and return all materials their original position. Turn the lab into your teacher before you leave lab.

Paper Chromatography Lab Report Discussion

Jin-Ying Zhang



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Practical Chemistry for CSEC Norman Lambert,1987-03-30 Practical Chemistry is a unique practice book for CXC It provides a wealth of revision exercises and a guide to all the detailed experimental work covered in the CXC Chemistry syllabus Section A Practical guidance for teachers and classes perform *Introduction to Biology* National Agricultural Institute,2014-08-27 Introduction to Biology is one in a series of Just The Facts JTF textbooks created by the National Agricultural Institute for secondary and postsecondary programs in biology agriculture food and natural resources AFNR This is a bold new approach to textbooks The textbook presents the essential knowledge of introductory biology in outline format This essential knowledge is supported by a main concept learning objectives and key terms at the beginning of each section references and a short assessment at the end of each section Content of the book is further enhanced for student learning by connecting with complementary PowerPoint presentations and websites through QR codes scanned by smart phones or tablets or URLs The textbook is available in print and electronic formats To purchase electronic copies inquire at info national ag institute org Research in Education ,1971 *The Impact of Formative Assessment Techniques on the Instruction of the High School Biology Units of Photosynthesis and Cellular Respiration* Shanna Fawn Tury,2010

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Paper Chromatography Lab Report Discussion: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Paper Chromatography Lab Report Discussion : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Paper Chromatography Lab Report Discussion : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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