

Introduction

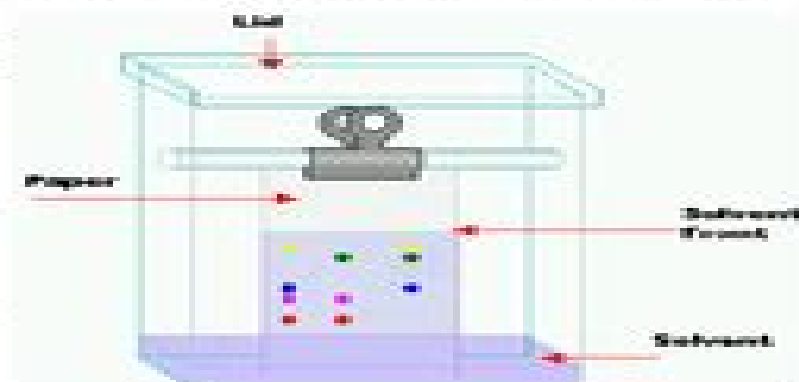
I work for a large chemical company, ChemicaEquip and it has been my job as a technical assistant to carry out different chromatographic techniques to separate and identify components in a mixture and identify different substances. In this report, I will describe and evaluate how I can separate different substances with chromatography. Chromatography is a practical technique used to separate and identify the components in a mixture. Chromatography involves a mixture being dissolved in a mobile phase (which could be a liquid or a gas), that is then passed through an immobile stationary phase (which is usually a solid). Chromatography can be used to separate and identify the components in a mixture. Types of chromatography include:

- Thin-Layer chromatography (TLC) is a technique in which compounds are separated on a thin layer of **adsorbent** material, typically a coating of silica gel on a glass plate or plastic sheet.
- Paper chromatography is an analytical method used to separate coloured chemicals or substances.

There are many advantages as well as disadvantages for paper chromatography and TLC.

Paper chromatography

Paper chromatography is basic, and the stationary phase is usually on paper whilst the mobile phase is the solvent usually water or a solution. The paper has a thin coating of water molecules which may affect the results. The advantages of using paper chromatography are being able to separate water soluble compounds. For example, inks detected by the naked eye. Whereas the disadvantages are that it is limited in terms of mobile phases as it is restricted to only water-soluble compounds. It can also be prone to smearing affecting the validity and reliability of the experiment. Another advantage of paper chromatography is that it requires very less quantitative material and is cheaper compared to other methods such as TLC. Another disadvantage is that there is a large quantity of sample



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that are passed from parents to their offspring in organisms that reproduce sexually Exploring Mendelian Genetics Exploring Mendelian Genetics. Section 11-3. Independent Assortment. In a two-factor cross, Mendel followed _____ different genes as they passed from one ... 11-3 Exploring Mendelian Genetics Mendel crossed the heterozygous F1 plants (RrYy) with each other to determine if the alleles would segregate from each other in the F2 generation. $RrYy \times RrYy$. 11-3 Exploring Mendelian Genetics What is the difference between incomplete dominance and codominance? • Incomplete dominance = heterozygous phenotype is somewhere in between the 2. Section 11-3 Exploring Mendelian Genetics Section 11-3 Exploring Mendelian Genetics. (pages 270-274). Key Concepts. • What is the principle of independent assortment? • What inheritance patterns exist ... Answers For CH 11, 13, 14 Reading Handout Section 11—3 Exploring Mendelian Genetics 9. What was the ratio of Mendel's F2 generation for the two-factor cross? (pages 270-274) 10. Complete the Punnett ... 11-3 Exploring Mendelian Genetics Aug 14, 2014 — 11-3 Exploring Mendelian Genetics. Key Concepts: What is the principle of independent assortment? What inheritance patterns exist aside from ... Answers to All Questions and Problems Aug 14, 2015 — CHAPTER 1. 1.1 In a few sentences, what were Mendel's key ideas about inheritance? ANS: Mendel postulated transmissible factors—genes—to. Introduction to Digital Culture:... by Nicholas, Tessa Joseph Introduction to Digital Culture: Living and Thinking in an Information Age brings together essays on the phenomenon of the Internet and its influence on the ... Introduction to Digital Culture : Living and Thinking in an ... In a series of accessible readings, this unique anthology explores the ways in which the everyday use of digital media shapes our lives and culture. The essays ... Introduction To Digital Culture Living And Thinking In An ... Are you searching for an extensive. Introduction To Digital Culture Living And Thinking In An Information Age summary that checks out the significant ... Introduction To Digital Culture Living And Thinking In An ... Invite to our comprehensive publication testimonial! We are delighted to take you on a literary journey and study the depths of Introduction To Digital. Introduction to Digital Culture Living and Thinking in an ... Introduction to Digital Culture : Living and Thinking in an Information Age. Author. Tessa Joseph-Nicholas. Item Length. 9in. Publisher. Cognella, Inc. Item ... Introduction to Digital Culture Living and Thinking ... The essays examine various perspectives on topics relevant to students including online identity, the ethics of online presence, video games and online role- ... Introduction to Digital Culture : Living and Thinking in an Infor Quantity. 1 available ; Item Number. 276155095185 ; Book Title. Introduction to Digital Culture : Living and Thinking in an Infor ; ISBN. 9781609271503 ; Accurate ... Introduction to Digital Culture Introduction to Digital Culture: Living and Thinking in an Information Age · Books Related to This Book · Expographic. Digital Culture (DIGC) < University of Pennsylvania DIGC 2200 Design Thinking for Digital Projects. Design thinking as a strategy and toolkit is usually defined as having five stages: Empathize, Define the ... SIDE MOOC: Introduction to Digital Culture - YouTube