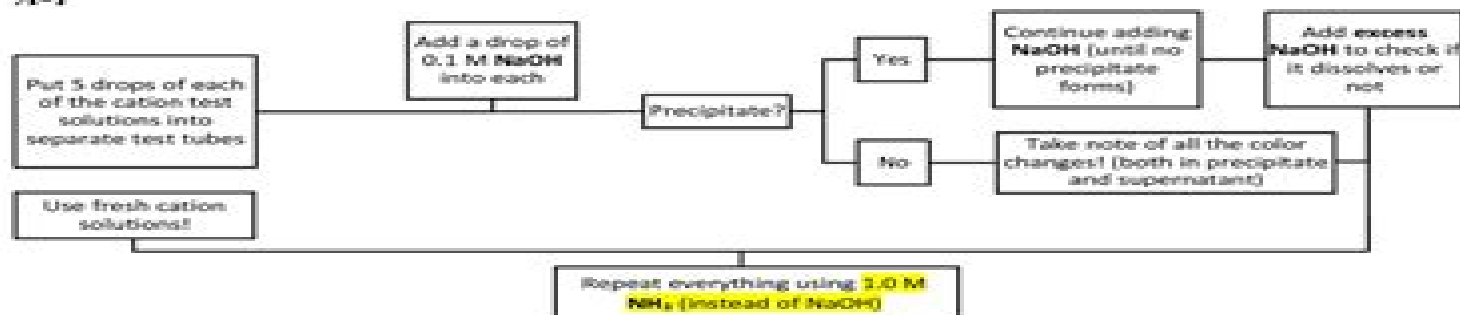


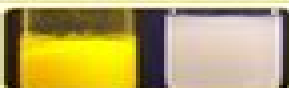
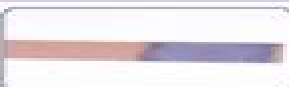
1. CATIONS – Ca^{2+} , Fe^{3+} , Cu^{2+} , Zn^{2+} , NH_4^+

Elimination Tests

A-1



Confirmatory Tests

	Cu^{2+} • Deep blue complex (upon mixing of solution with excess NH_3)
	Fe^{3+} • Blood red complex (FeSCN^{2+}) (upon addition of 2 drops of 0.1 M KSCN) • Dark blue precipitate ($\text{KFe}^{3+}\text{Fe}^{2+}(\text{CN})_{11}$) (upon addition of 2 drops of 0.1 M $\text{K}_4\text{Fe}(\text{CN})_{10}$)
	Ca^{2+} • White precipitate (upon mixing with 2 drops of 0.1 M $(\text{NH}_4)_2\text{C}_2\text{O}_4$)
	Zn^{2+} • Yellow precipitate ($\text{K}_2\text{ZnFe}(\text{CN})_{10}$) (upon addition of 2 drops of 0.1 M $\text{K}_4\text{Fe}(\text{CN})_{10}$) • White precipitate ($\text{K}_2\text{Zn}(\text{OH})_2$) (upon addition of 0.1 M $\text{K}_4\text{Fe}(\text{CN})_{10}$)
	NH_4^+ • Red litmus paper turns blue upon contact with vapor formed by mixing 30 drops of solution with 5 drops of 1.0 M NaOH

Moisten 2 pieces of litmus paper (red and blue) with distilled water

Stick to the underside of watch glass

Immediately cover evaporating dish (containing the solution above) with the watch glass (litmus paper facing the solution)

Do NOT allow solution to touch the litmus paper!

Cations And Ions Lab Report

**Alabama Agricultural Experiment
Station**



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Pistachio Production Manual Louise Ferguson, David Haviland, 2016-12-02 The long awaited Pistachio Production Manual from the University of California is here The combined knowledge of 42 UC and industry experts and years of research and field trials are brought to fruition in this long awaited 321 page manual From an overview of the state of the industry to physiological disorders the 8 part manual covers everything you need to know Chapters cover topics including orchard design rootstocks and cultivars planting and training young trees weed insect mite and vertebrate management irrigation and salinity management disease management and physiological disorders including alternate bearing nut blanking and shell splitting Over 200 color photographs and 60 diagrams charts and tables illustrate key points The back cover includes a photographic guide to the developmental stages of the pistachio **Prune Production Manual** Richard P. Buchner, 2012-05-16 Written in easy to read non technical language this manual is the perfect field application guide Inside you ll find the professionalism expertise and science based answers you ve come to expect from the University of California with contributions from more than 40 Cooperative Extension professionals UC faculty USDA scientists and highly skilled prune industry experts Chapters include An industry overview A detailed description of prune biology Information on understanding soils varieties irrigation and fertilization Pest management techniques A lesson on harvest and postharvest management The breadth of expertise and knowledge contained in the 320 pages of this manual along with the more than 300 photos and 56 color illustrations make this one of the most comprehensive prune production manuals in the world

Walnut Production Manual David E. Ramos, 1997-10-01 **Water-resources Investigations Report** , 1996 **Annual Report of the Agricultural Experiment Station of the Alabama Polytechnic Institute** Alabama Polytechnic Institute. Agricultural Experiment Station, 1919 **Annual Report - Agricultural Experiment Station** Alabama Agricultural Experiment Station, 1906 **Scientific and Technical Aerospace Reports** , 1990 **Environmental Laboratory Exercises for Instrumental Analysis and Environmental Chemistry** Frank M. Dunnivant, 2004-08-23 A comprehensive set of real world environmental laboratory experiments This complete summary of laboratory work presents a richly detailed set of classroom tested experiments along with background information safety and hazard notes a list of chemicals and solutions needed data collection sheets and blank pages for compiling results and findings This useful resource also Focuses on environmental i e dirty samples Stresses critical concepts like analysis techniques and documentation Includes water air and sediment experiments Includes an interactive software package for pollutant fate and transport modeling exercises Functions as a student portfolio of documentation abilities Offers instructors actual samples of student work for troubleshooting notes on each procedure and procedures for solutions preparation **Laboratory Manual for Principles of General Chemistry** J. A. Beran, Mark Lassiter, 2022-08-16 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts

that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don't write experiments A student's scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition's experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment's Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section

Circle Gardening Kenneth E Spaeth, 2018-01-29 As more people become concerned with food safety as well as the environment vegetable gardening offers an opportunity to grow produce at home Not everyone has the time money or energy to take on the challenge of starting a vegetable garden however In *Circle Gardening* Kenneth E Spaeth Jr a soil and ecosystem specialist provides a fresh approach and thorough guide to vegetable gardening for all gardeners experienced and beginner alike Through years of experimentation Spaeth has found circle gardening an ancient method as old as agriculture to be not only an efficient but also an aesthetically pleasing way to grow plants By arranging them in a concentrated circle rather than in rows gardeners are able to conserve compost fertilizer and water Depending on the number of vegetables planted this design can save time and be less physically demanding The rationale for planting your veggies in a circle is scientific too many plants clump together in nature and thrive in groups and so planting in circles actually mimics natural plant distribution There are other questions that befuddle expert and beginner gardeners too What is the difference between organic and conventional gardening Are there significant pros and cons to each What makes up the soil in a garden Spaeth provides clear answers to these complex questions The book also includes quick vegetable guides in the back along with information on composting calculating fertilizer rates and gauging soil health

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