### **Experiment 37**

## Advance Study Assignment: Qualitative Analysis of Group II Cations

- 1. Prepare a complete flow diagram for the separation and identification of the Group II cations and put it on the report page for this experiment.
- Write balanced net some equations for the following reactions:
  - a. Precipitation of tin(IV) sulfide with H<sub>2</sub>S

b. The confirmatory test for antimony

c. The dissolution of Bi<sub>2</sub>S<sub>3</sub> in hot nitric acid

$$Bi2S3(s) + 18 MNO3(sp) = 2Bi(N3)3(sp) + 3MSO((sp) + 3NO9)$$
d. The confirmatory test for copper
$$UA^{2+}(sp) + 4NM3(sp) + 2M2O3 = [U(NM3) U(NO2)]^{2+}$$
3. A solution that may contain  $Cu^{2+}$ ,  $Bi^{2+}$ ,  $Sn^{4+}$ , and/or  $Sb^{3+}$  ions is treated with thioscetamide in an acid

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3. A solution  $Cu^{2+}$ ,  $Cu^{2+}$ ,

medium. The black precipitate that forms is partly soluble in strongly alkaline solution. The precipitate that remains is soluble in 6 M HNO3 and gives only a blue solution on treatment with excess NH3-The alkaline solution, when acidified, produces an orange precipitate. On the basis of this information, which ions are present, which are absent, and which are still in doubt? State your reasoning. Note: For "paper unknowns" such as this one, confirmatory tests are usually not included, and you do not need to provide any. The information provided here, without confirmatory tests, is sufficient to clearly indicate the presence or absence of some of the Group II ions studied in this experiment, while leaving others in doubt.

Present.		

Absent \_\_

In doubt \_\_\_

# **Advance Study Assignment Group 1 Cations Answers**

**Lingsheng Yao** 

#### **Advance Study Assignment Group 1 Cations Answers:**

Advanced EPR A.J. Hoff, 1989-10-28 Advanced EPR Applications in Biology and Biochemistry provides an up to date survey of existing EPR techniques and their applications in biology and biochemistry and also provides a wealth of ideas for future developments in instrumentation and theory The material is broadly organized into four parts In the first part chapters 1 to 6 pulsed EPR is discussed in detail The second part chapters 7 to 12 provides detailed discussions of a number of novel and experimental methods The third part comprises seven chapters on double resonance techniques five on ENDOR and two on optically and reaction yield detected resonance The final part is devoted to a thorough discussion of a number of new developments in the application of EPR to various biological and biochemical problems Advanced EPR will interest biophysicists physical biochemists EPR spectroscopists and others who will value the extensive treatment of pulsed EPR techniques the discussion of new developments in EPR instrumentation and the integration of theory and experimental details as applied to problems in biology and biochemistry Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1952 Includes Part 1A Books and Part 1B Pamphlets Serials and Contributions to Periodicals Advisor Diploma - City of London College of Economics - 12 months - 100% online / self-paced City of London College of Economics, Overview Whatever you wanted to know about nutrition in this diploma course you will find it And upon completion you can advise people as nutrition advisor Content What Is a Healthful Diet Ten Well Okay Twelve Superstar Foods Ten Easy Ways to Cut Calories Better Eating through Chemistry Carbohydrates A Complex Story Powerful Protein The Lowdown on Fat and Cholesterol Food and Mood Mighty Minerals Vigorous Vitamins Alcohol Another Form of Grape and Grain Ten Nutrition Web Sites etc Duration 12 months Assessment The assessment will take place on the basis of one assignment at the end of the course Tell us when you feel ready to take the exam and well send you the assignment questions Study material The study material will be provided in separate files by email download link Federal Information Systems and Plans--Federal Use and Development of Advanced Information Technology United States. Congress. House. Committee on Government Operations. Foreign Operations and Government Information Resources in Education ,1998-10 **Handbook of Nutrition and Food** Carolyn D. Subcommittee, 1973 Berdanier, Johanna T. Dwyer, Elaine B. Feldman, 2007-08-24 Significantly revised and updated this second edition of the bestselling Handbook of Nutrition and Food welcomes contributions from several new authors including Elaine B Feldman and Johanna Dwyer notable leaders in nutritional science Retaining the high level of scientific research accessible language Federal Information Systems and Plans--Federal Use and Development of and attention to detail of the original Advanced Information Technology: Federal use and development of advanced information technology United States. Congress. House. Committee on Government Operations. Foreign Operations and Government Information Subcommittee.1973 **Sociological Research** Matilda White Riley,1963 Research in Education ,1974 Nuclear

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