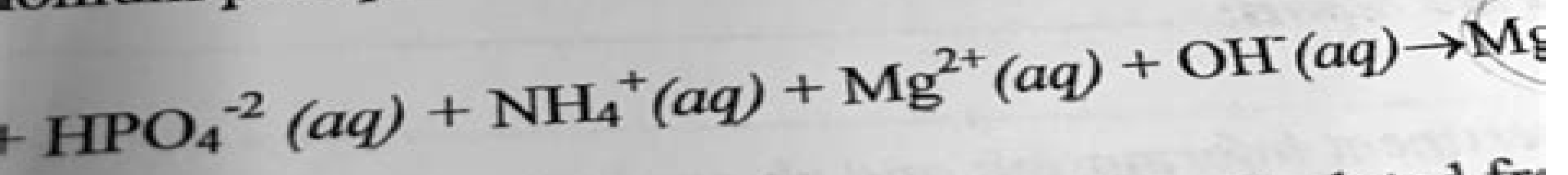


Experiment for Gravimetric Analysis:

The Determination of Phosphorus in Plant Food

from "Laboratory Experiments", J.H. Nelson and K.C. Kemp, Prentice-

Gravimetric analysis is a quantitative (i.e. how much?) method of classical analysis. The element to be determined is isolated in a solid compound of known identity. The mass of the element that was present in the original sample can be calculated from the mass of this compound. Plant foods contain three essential nutrients that are added to soils. These are soluble compounds of nitrogen, phosphorus, and potassium. A plant food will have a set of numbers such as 15-30-15. This means that the product is guaranteed to contain at least 15% nitrogen, 30% phosphorus, and 15% potassium (expressed as K_2O). The remaining of the product is made up of anions and cations to balance the charge in the chemical compound. This experiment is a quality control analysis for the determination of phosphorus in a plant food. Phosphorus will be determined by precipitation of ammonium phosphate hexahydrate according to the reaction:



The percentage of P_2O_5 in the initial sample can be calculated from the mass of the precipitate.

Gravimetric Determination Of Phosphorus Lab

University of Idaho

The logo of the University of Idaho, featuring a red and white circular design with a stylized 'U' and 'I'.

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Working with Chemistry Donald J. Wink, Sharon Fetzer-Gislason, Julie Ellefson Kuehn, 2004-02-20 With this modular laboratory program students build skills using important chemical concepts and techniques to the point where they are able to design a solution to a scenario drawn from a professional environment The scenarios are drawn from the lives of people who work with chemistry every day ranging from field ecologists to chemical engineers and include many health professionals as well

Laboratory Manual for the Course in Advanced Quantitative Analysis Hobart Hurd Willard, 1917

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QUALITY ASSURANCE FOR ANIMAL FEED ANALYSIS LABORATORIES Food and Agriculture Organization of the United Nations, 2018-09-27 Every sector of the livestock industry the associated services and the wellbeing of both animals and humans are influenced by animal feeding The availability of accurate reliable and reproducible analytical data is imperative for proper feed formulation Only reliable analysis can lead to the generation of sound scientific data This document gives a comprehensive account of good laboratory practices quality assurance procedures and examples of standard operating procedures as used in individual specialist laboratories The adoption of these practices and procedures will assist laboratories in acquiring the recognition of competence required for certification or accreditation and will also enhance the quality of the data reported by feed analysis laboratories In addition ensuring good laboratory practices presented in the document will enhance the safety of the laboratory workers The document will be useful for laboratory analysts laboratory managers research students and teachers and it is hoped that it will enable workers in animal industry including the aquaculture industry to appreciate the importance

of proven reliable data and the associated quality assurance approaches. An additional effect of implementing and adopting these approaches will be strengthening of the research and education capabilities of students graduating from R D institutions and promotion of a better trading environment between developing and developed economies. This will have long term benefits and will promote investment in both feed industries and R D institutions.

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