

ESci 115b – CHEMISTRY FOR ENGINEERS (LABORATORY)
LABORATORY REPORT

Name: Luis Manuel L. Rojas

Date Submitted: 5/12/2021

Lab Schedule: Tuesday, 2:00-5:00pm (POH)

Date Performed: 12/4/2020

Experiment No. 1
Introduction: The Chemical Laboratory

I. OBJECTIVES

Results			Inference
1. Measuring Volume			To get the accurate reading of data, proper measuring device was used. Such as, pipets, which are used to draw precisely measured amounts of fluid from a receptacle. Then for graduated cylinders are tools used to measure volume of liquids. Also, a meniscus is a curve formed on the upper surface of a liquid inside a container.
a. Using Pipet	1- 7.5 - 10 TD		
b. Using graduated cylinder	100ml		
2. Measuring Weight			In measuring weight, must record first the container which is the weighing boat that will be needed before weighing it with another sample. Next to that, we can also use tare as an option by concealing the weight of the said container. But also, the subtraction of values will be needed to get the net weight from a sample of a weight said.
a. Tare weight (wt. of container)	2.2451g		
b. Gross weight (wt. of container w/ sand)	4.4840g		
c. Net weight (wt. of sand)	2.2379g		
3. Precipitation			A precipitate is a solid that forms out of solution where the FeCl_3 solution is insoluble in NaOH solution. Then, during a chemical reaction where these two solutions were poured together in the container, there will be a formed of brown pieces color.
a. Color of ferric chloride (FeCl_3) solution	light brown		
b. Color of sodium hydroxide (NaOH) solution	Colorless		
c. Color precipitate	Brown		

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Chandresh Agrawal,nandini books



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Department of Defense Appropriations for 1989: Chemical weapons and demilitarization United States.

Congress. House. Committee on Appropriations. Subcommittee on Department of Defense,1988 [OECD Guidelines for the Testing of Chemicals, Section 4 Guideline No. 497: Defined Approaches on Skin Sensitisation](#) OECD,2025-06-25 A Defined Approach DA consists of a selection of information sources e g in silico predictions in chemico in vitro data used in a specific combination and resulting data are interpreted using a fixed data interpretation procedure DIP e g a mathematical rule based model DAs use methods in combination and are intended to overcome some limitations of the individual stand alone methods

The Chemical News ,1928 **Journal of the American Chemical Society** American Chemical Society,1927

Proceedings of the Society are included in v 1 59 1879 1937 **Guidelines for Safe Automation of Chemical Processes** CCPS (Center for Chemical Process Safety),2017-01-06 This book provides designers and operators of chemical process facilities with a general philosophy and approach to safe automation including independent layers of safety An expanded edition this book includes a revision of original concepts as well as chapters that address new topics such as use of wireless automation and Safety Instrumented Systems This book also provides an extensive bibliography to related publications and topic specific information **Chloroneb** ,1980 **Biological Science Subject PDF eBook-Multiple Choice Objective Questions With Answers** Chandresh Agrawal,Nandini Books,2024-04-29 SGN The Biological Science Subject PDF eBook Covers Multiple Choice Objective Questions With Answers **OAVS TGT Exam PDF-Odisha Adarsha Vidyalaya Sangathan TGT Science Exam PDF eBook** Chandresh Agrawal,nandini books,2024-06-29 SGN The OAVS Odisha Adarsha Vidyalaya Sangathan TGT Science Exam PDF eBook Covers Biology Subject Only [HSSC TGT Exam PDF-Haryana TGT Science Exam Biology Subject Only PDF eBook](#) Chandresh Agrawal,nandini books,2024-07-01 SGN The HSSC Haryana TGT Science Exam Biology Subject Only PDF eBook Covers Objective Questions Asked In Various Competitive Exams With Answers **RPSC Exam PDF - Rajasthan Sr Teacher Gr II Science Exam: Biology Subject Ebook-PDF** Chandresh Agrawal,nandini books,2025-01-27 SGN The Ebook RPSC Rajasthan Sr Teacher Gr II Science Exam Biology Subject Covers Objective Questions From Various Competitive Exams **A Bacteriological and Chemical Study of Commercial Eggs in the Producing Districts of the Central West** ,1915 Pp 65 **Chemistry and Technology of Natural and Synthetic Dyes and Pigments** Ashis Kumar Samanta,Nasser Awwad,Hamed Majdooa Algarni,2020-09-30 This book on Chemistry and Technology of Natural and Synthetic Dyes and Pigments is a priority publication by IntechOpen publisher and it relates to sustainable approaches towards green chemical processing of textiles specifically on dyeing with natural dyes and pigments as well as dyeing with eco safe synthetic dyes and chemicals This book includes the following chapters an introductory editorial chapter on bio mordants bio dyes and bio finishes a review of natural dyes and pigments and its application pantone like shade generation with natural colorants colour based natural dyes and pigments printing with natural dyes and pigments

functional property and functional finishes with natural dyes and pigments eco safe synthetic dyes and chemicals and a miscellaneous review on dyed textiles and clothing including natural dye based herbal textiles This new book is expected to be useful for dyers of the textile industry as well as to the future researchers in this field **Chemical News and Journal of Physical Science** ,1907 **Chemical News and Journal of Industrial Science** ,1907 **Chemical Testing Using New Approach Methodologies (NAMs)** Amy J. Clippinger,Tala Henry,Carole Hirn,Todd Stedeford,Andreas Stucki,Claire Terry,2022-12-16 2013 International Conference on Biological, Medical and Chemical Engineering (BMCE2013) E. Purshotaman,2014-01-06 This proceeding is indeed the result of remarkable cooperation of many distinguished experts who came together to contribute their research work and comprehensive in depth and up to date review articles We are thankful to all the contributing authors and co authors for their valued contribution to this book We would also like to express our gratitude to all the publishers and authors and others for granting us the copyright permissions to use their illustrations 2013 International Conference on Biological Medical and Chemical Engineering BMCE2013 which will be held on December 1 2 2013 Hong Kong aims to provide a forum for accessing to the most up to date and authoritative knowledge from both Biological Medical and Chemical Engineering The dynamic Hong Kong officially the Hong Kong Special Administrative Region of the People s Republic of China is a largely self governing territory of the People s Republic of China PRC facing the Guangdong Province in the north and the South China Sea to the east west and south Under the one country two systems policy Hong Kong enjoys considerable autonomy in all areas with the exception of foreign affairs and defense which are the responsibility of the PRC Government As part of this arrangement Hong Kong continues to maintain its own currency separate legal political systems and other aspects that concern its way of life many of which are distinct from those of mainland China In relation with the title of this proceeding Biological and Medical Engineering Developmental biology Environmental Biology Evolutionary Biology Marine Biology Chemistry and Chemical Engineering Fundamentals Chemical engineering educational challenges and development Chemical reaction engineering Chemical engineering equipment design and process design Thermodynamics Catalysis reaction engineering Advances in computational numerical methods Systems biology Integration of Life Sciences Engineering Multi scale and Multi disciplinary Approaches Controlled release of the active ingredient Energy nuclear sciences Energy and environment CFD chemical engineering Food engineering etc has been targeted and included in this proceeding The proceeding is the results of the contribution of a number of experts from the international scientific community in the respective field of research **Research Methods in Plant Science** Richard M. Klein,Deana T. Klein,1970 *Chemical Studies of Infertile Soils Derived from Rocks High in Magnesium and Generally High in Chromium and Nickel* Benjamin Schwartz,Beyer Aune,Charles Allen Clark,Charles Edwin Kellogg,Charles W. Culpepper,Clarence Sheldon Slater,Clifford Curtis Taylor,Elmer W. Knight,George Fordyce Waldo,George McMillan Darrow,Jacob Allen Clark,James William Park,Loren George Polhamus,Lytton W. Boyle,Perry Kenton Norris,Ralph Edwin

Beckett,Ralph P. Hotis,Robert Claude Wright,Theo. H. Scheffer,Thompson Elwyn Woodward,William Alfonso Baker,William Orrin Robinson,Burton Bernard Bayles,Clarence Cottam,Glen Edgington,Horace Greeley Byers,Hubert Hill Moon,J. I. Lauritzen,James Kenneth Ableiter,Joseph Addison Elder,Joseph Everett Alicata,L. G. Jones,Lewis Alexander Hurst,R. R. Graves,Raymond R. Pailthorp,Robert S. Stitt,Albert Osenbrug,Harlan H. Hill,Thomas Moore Whiteman,1935 **Chemical Manipulation of Crop Growth and Development** J S McLaren,2013-10-22 Chemical Manipulation of Crop Growth and Development presents a critical review of the plant growth regulators in field crops It discusses the strategies to discover plant growth regulators for agronomic crops the methods of modifying stomatal movement and the possible use of chemicals for photorespiration control Some of the topics covered in the book are the hormonal control of photosynthesis and assimilate distribution manipulation of crop growth by ethylene and some implications of the mode of generation genetic and chemical manipulation of crops to confer tolerance to chemicals and effects of allelochemicals on crop growth and development The control of development of potato plant by using endogenous and exogenous growth regulators is covered The analysis of crop physiology to assess plant growth regulation in sugar beet is also discussed An in depth analysis of the influence of auxin antagonists on pod and seed number is provided The effect of foliar applications of synthetic plant growth regulators on the agronomic characteristics of field growth corn is presented A chapter is devoted to the use and effect of cerone in developing winter barley The book can provide useful information to farmers botanists students and researchers *The Monthly Journal of Medical Science* ,1846

P O D Test Chemsitry Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **P O D Test Chemsitry**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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