

Synthesis of Aspirin (Lab #11)

Los Angeles Trade-Tech College – CHEMISTRY 102 LABORATORY

In today's lab you will synthesize aspirin from simpler starting materials. After the reaction that creates aspirin, you will purify the aspirin using a technique called *recrystallization*. You will work on a small scale today to avoid creating excessive waste and unpleasant odors.



Fig. 1: Preparation of Aspirin

Procedure:

Part 1: Making Aspirin:

1. Prepare a 150 mL beaker about 2/3 full of water. Place it on a hot plate and heat to 80°C.
2. Start with a dry 25 mL Erlenmeyer flask. Place about 600 mg of Salicylic acid in the flask. To this flask, add 1.40 mL of acetic anhydride. **Caution! Perform this operation in the fume hood! Acetic anhydride is foul-smelling and toxic!**
3. Add about five drops of 85% phosphoric acid to the mixture. **Caution! Phosphoric acid is corrosive! If you get some on you, wash it off immediately with cold water!** Clamp the flask and immerse it in the hot water bath for 10 minutes. Swirl the flask occasionally to get the solids to dissolve. The water needs to be hot enough to dissolve the solids, but not boiling hot. Hot tap water is usually enough.
4. Remove the flask from the water bath. While the mixture is still hot, add 10-20 drops of water to destroy the excess acetic anhydride. Let stand for five (5) minutes. Then add 5 mL of additional water and let the flask cool to room temperature on its own. Crystals should form after the solution cools.
5. If the aspirin hasn't crystallized yet, cool the flask in an ice bath until it does. Collect the solid that forms using vacuum filtration. Wash the solid with 1-2 mL of cold water.

Part 2: Purifying Aspirin:

1. Transfer the crude product to a 10 mL (or 25 mL) beaker. Add about 2 mL of ethyl alcohol using a plastic pipet. Warm the solution until the aspirin dissolves, then add roughly the same volume of water (volume of dissolved crystal + ethyl alcohol) to the mixture. Cover the solution and let it cool.
2. After crystals form again, collect them using vacuum filtration. Let the crystals dry for a few minutes before weighing them. You can also press the crystals down on a paper towel to dry them.

Analysis Of Aspirin Lab Report Conclusion

Jicheng Xie



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Fundamentals of Analytical Toxicology Robert J. Flanagan, Eva Cuypers, Hans H. Maurer, Robin Whelpton, 2020-05-21

Fundamentals of Analytical Toxicology is an integrated introduction to the analysis of drugs poisons and other foreign compounds in biological and related specimens Assuming only basic knowledge of analytical chemistry this invaluable guide helps trainee analytical toxicologists understand the principles and practical skills involved in detecting identifying and measuring a broad range of compounds in various biological samples Clear easy to read chapters provide detailed information on topics including sample collection and preparation spectrophotometric and luminescence techniques liquid and gas liquid chromatography and mass spectrometry including hyphenated techniques This new edition contains thoroughly revised content that reflects contemporary practices and advances in analytical methods Expanding the scope of the 1995 World Health Organization WHO basic analytical toxicology manual the text includes coverage of separation science essential pharmacokinetics xenobiotic absorption distribution and metabolism clinical toxicological and substance misuse testing therapeutic drug monitoring trace elements and toxic metals analysis and importantly the clinical interpretation of analytical results Written by a prominent team of experienced practitioners this volume Focuses on analytical statistical and pharmacokinetic principles Describes basic methodology including colour tests and immunoassay and enzyme based assays Outlines laboratory operations such as method validation quality assessment staff training and laboratory accreditation Follows IUPAC nomenclature for chemical names and recommended International Non proprietary Name rINN for drugs and pesticides Includes discussion of designer drugs novel pharmaceutical substances NPS

Fundamentals of Analytical Toxicology Clinical and Forensic 2nd Edition is an indispensable resource for advanced students and trainee analytical toxicologists across disciplines such as clinical science analytical chemistry forensic science pathology applied biology food safety and pharmaceutical and pesticide development

The Tubby Traveler from Topeka Brian S. Edwards, 2012-04-27

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The Handbook of Research Synthesis Harris Cooper, Larry V. Hedges, 1993-11-23

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The Handbook of Research Synthesis is one of the most important publications in this subject both as a definitive reference book and a practical manual

British Medical Journal

The Handbook of Research Synthesis is the definitive reference and how to manual for behavioral and medical scientists applying

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Clinical Epidemiology R. Brian Haynes, 2012-03-29 The Third Edition of this popular text focuses on clinical practice research methods It is written by clinicians with experience in generating and answering researchable questions about real world clinical practice and health care the prevention treatment diagnosis prognosis and causes of diseases the measurement of quality of life and the effects of innovations in health services The book has a problem oriented and protocol based approach and is written at an introductory level emphasizing key principles and their applications A bound in CD ROM contains the full text of the book to help the reader locate needed information

Evidence for Psi Damien Broderick, Ben Goertzel, 2014-11-19 Psi is the term used by researchers for a variety of demonstrable but elusive psychic phenomena This collection of essays provides a detailed survey of the evidence for psi at the level of scientific examination Key features of apparent psi phenomena are reviewed including precognition and remote perception knowledge of future or distant events that cannot be inferred from present information presentiment physiological responses to stimuli that have not yet occurred the effects of human emotions on globally dispersed machines the possible impact of local sidereal time on psi performance and the familiar feeling of knowing who is calling on the phone Special attention is given to those phenomena that make it difficult for scientists to get a clear understanding of psi The body of psi research while complex and frustrating is shown to contain sufficiently compelling positive evidence to convince the rational open minded observer that psi is real and that one or more physical processes probably underlie observed psi phenomena

Accurate Results in the

Clinical Laboratory Amitava Dasgupta, Jorge L. Sepulveda, 2013-01-22 This practical easy to use guide named to Doody's Core Titles 2013 addresses interference issues in all laboratory tests including patient epigenetics process of specimen collection enzymes biomarkers Clinicians and laboratory scientists can therefore rely on one reference which speaks to both their needs of accurate specimen analysis and optimal patient care Erroneous hospital and pathology laboratory results can be confusing and problematic especially in acute care situations While some factors creating interference can be identified in the laboratory detecting many others is often dependent on clinical details unavailable to the laboratory scientists or pathologists Therefore clinicians must become proficient in identifying such erroneous reports and working with pathologists and laboratory scientists so that they can understand the source of such interferences correct the results and then decide what course of action must be followed for proper patient management Named to Doody's Core Titles 2013 a collection development tool for health sciences libraries of all sizes by Doody Enterprises Practical information for both clinicians and laboratory scientists presented in the form of tables and charts for easy reference Focus on range and sources of interferences rather than details of toxicologic mechanisms which are well covered in toxicology textbooks Covers interferences across endocrine oncology hematology immunohistochemistry immunology serology microbiology and molecular testing

Drug Therapy for Stroke Prevention Julian Bogousslavsky, 2001-05-24 Stroke is the third leading cause of death in the USA and UK It is a major cause of disability among adults and is a significant factor in dementia in later life and its incidence is on the rise This book discusses specific medications that target the blood and vasculature and how these treatments can be used to complement other therapeutic measures

Laboratory Experiments for General Chemistry Harold R. Hunt, Toby F. Block, George M. McKelvy, 1998

Laboratory Manual of Pharmaceutical Organic Chemistry I Mr. Sushant Sudhir Pande, Dr. Prashant D. Aragade, Dr. Saurabh C. Khadse, Dr. Niranjan S. Mahajan, 2024-02-16 We are pleased to put forth the Laboratory Manual of Pharmaceutical Organic Chemistry I This manual prepared according to the PCI B Pharm course regulations 2014 is divided into three sections systematic qualitative analysis preparation of suitable solid derivatives and construction of molecular models The methods of all the experiments are drawn from the latest editions of official books of pharmaceutical organic chemistry and research papers ensuring the inclusion of the latest advancements in methodologies or apparatus This manual is designed for outcome based education Each experiment follows a uniform format with sections for practical significance practical outcomes PrOs mapping with course outcomes theory resources used procedure precautions observations results conclusion references and synopsis questions Each experiment offers an opportunity for students to perform practical work developing proficiency in effectively managing equipment handling glassware chemicals reagents and writing analytical reports In addition the questions at the end of the experiments help to enhance students knowledge benefiting them as they pursue higher studies During the laboratory period you will have to multiple tasks while performing the experiment It is essential to document your actions and observations thoroughly as you

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Platelets Alan D. Michelson,Marco Cattaneo,Andrew Frelinger,Peter Newman,2019-03-07 Platelets Fourth Edition integrates the entire field of platelet biology pathophysiology and clinical medicine with contributions from 142 world experts from 18 countries This award winning reference provides clear presentations by basic scientists on the cellular molecular and genetic mechanisms of platelets and the role of platelets in thrombosis hemorrhage inflammation antimicrobial host defense wound healing angiogenesis and cancer It also provides start of the art presentations by hematologists cardiologists stroke physicians blood bankers pathologists and other clinicians on platelet function testing disorders of platelet numbers and function antiplatelet therapy and therapy to increase platelet numbers and or function Since the publication of the Third Edition of Platelets there has been a rapid expansion of knowledge in both basic biology of platelets and the clinical approach to platelet related diseases This Fourth Edition of Platelets draws all this information into a single comprehensive and authoritative resource Comprehensive and definitive source of state of the art knowledge about platelets Integrates the entire field of platelet biology pathophysiology and clinical medicine Written for clinicians pathologists and scientists by 142 world renowned experts from 18 countries Completely revised and updated with 11 new chapters on topics such as platelet glycobiology the platelet transcriptome platelet inhibitory receptors platelet function testing in clinical research trials therapeutic platelet rich plasma in wound healing and new antiplatelet drugs Full color textbook with over 250 illustrations and 15 000 references *Cumulated Index Medicus*,1990

Pharmacoepidemiology Brian L. Strom,2006-01-04 The fourth edition of Pharmacoepidemiology is an outstandingand fully comprehensive textbook which will be an essentialresource for all interested in the field in academia inregulatory agencies in industry and in the law BrianStrom s classic textbook continues both to reflect theincreased maturation of pharmacoepedemiology and to help shapeit s direction Reviews of previous editions of his celebrated textbookinclude The book is essential reading for anyone interested inpharmacoepidemiology INTERNATIONAL JOURNAL OF EPIDEMIOLOGY an excellent textbook and a comprehensivereference which belongs in the library of everypharmaceutical manufacturer and regulator EUROPEAN JOURNAL OF PUBLIC HEALTH Perioperative Medicine E-Book Mark F. Newman, Lee A. Fleisher, Mitchell P. Fink,2007-10-12 Recognized authorities in anesthesiology and surgical critical care present you with today s best management approaches for achieving optimal perioperative outcomes They review the potential risks to all major organ systems by examining the incidence and significance of organ dysfunction

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