

A LAB MANUAL & WORKBOOK

Exploring Physical Anthropology



Suzanne E.
WALKER



Physical Anthropology Lab Manual And Workbook

Diane L. France, Arthur D. Horn



Physical Anthropology Lab Manual And Workbook:

Exploring Physical Anthropology Laboratory Manual & Workbook Suzanne E. Walker-Pacheco, 2017-02-01

Exploring Physical Anthropology is a comprehensive full color lab manual intended for an introductory laboratory course in physical anthropology. It can also serve as a supplementary workbook for a lecture class particularly in the absence of a laboratory offering. This laboratory manual enables a hands on approach to learning about the evolutionary processes that resulted in humans through the use of numerous examples and exercises. It offers a solid grounding in the main areas of an introductory physical anthropology lab course: genetics, evolutionary forces, human osteology, forensic anthropology, comparative functional skeletal anatomy, primate behavior, paleoanthropology, and modern human biological variation.

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not a one way situation when the forensic anthropologist deals with skeletonized bodies that have some kind of soft tissue the advice of a forensic pathologist would be welcome Forensic anthropology is a subspecialty field of physical anthropology Most of the background on skeletal biology was gathered on the basis of skeletal remains from past populations Physical anthropologists then developed an indisputable know how nevertheless one must keep in mind that looking for a missing person or checking an assumed identity is quite a different matter Pieces of information needed by forensic anthropologists require a higher level of reliability and accuracy than those granted in a general archaeological context To achieve a positive identification findings have to match with evidence particularly when genetic identification is not possible

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for the nitration 4.01 ml of nitric acid 4.00 ml of sulfuric acid and 4.56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4.56 ml of bromobenzene was used the amount of product predicted to be recovered was 8.7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction e.g. particularly nitration of methyl benzoate to give methyl m-nitrobenzoate thus determine the weight melting point and percentage yield of the pure methyl m-nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho/para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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then actual is your actual findings yield actual theoretical x 100 what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1-bromo-4-nitrobenzene

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture hno₃ h₂so₄ in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0.6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accommodate their electrons demonstration of creating the p arenium cation by nitration of bromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion NO_2^+ which acts as the electrophilic species

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lab report 10 nitration of bromobenzene raekwon filmore cm 244 section 40 march 27 2018 introduction for this experiment nitration of bromobenzene was the focus of the lab the benzene is an aromatic compound and when it reacts with wither a mixture of sulfuric acid or nitric acid creates what is known as a nitro group

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