

# Lab practical 2 study guide

Review the different media and biochemical tests we have done. For each you should know:

- Know the positive and negative results and any selective/differential properties.
  - what component(s) makes it selective? Differential? What is it selective for/against? Is there a pH indicator? How is this media used (what do you learn from these tests results)? Etc.

For GPC labs (Staph and Strep)

- Know all the species characteristics we discussed in the lab and in the lab manual.
- Understand the differentiating tests used for both the Staph and Strep labs.
- Know which species give which results (the identification process used to differentiate species)
- Be able to identify each species using the tests/media we learned about.

For GNR lab

- Know all of the species we discussed in lab along with their family names. Know the key characteristics discussed in the lab for each. Know the Enterobacteriaceae family characteristics.
- You will not need to spell these names, but you should know family, genus and species and any key characteristics we highlighted in lab for all the species we discussed.
- Know the media and biochemical tests used for this lab. Know how they work, what their key components are, what positive/negative results look like and what it is telling us about the microbe being tested.
- You do not need to know which species give positive/negative results for GNR. Be able to interpret all the different tests and use them to identify a species if given a chart similar to what we used in lab.

For Aerotolerance lab

- Understand how FTG works (including the chemical components discussed for FTG), how this media provides or restricts oxygen to create an oxygen gradient. Know what the different growth results look like.
- Know the incubation conditions we used and how to interpret results. Know how anaerobic chambers and candle jars impact oxygen levels (and how this is accomplished).
- Know the % oxygen for each of the conditions discussed and what type of microorganism will grow in each (Anaerobic chamber, candle jar, air)
- Know the species we used tested in that lab and their oxygen growth requirements.
- Know the diseases caused by all of the Clostridium species discussed in that lab.

The lab practical is "semi-cumulative."

- The lab will consist of 25-30% of material from the first half of class and 75-70% from the 2nd half of class.
- Overlapping information (like such as Gram stain, SBA, SFI etc...) is fair game for either category.

What you should know from the 1st lab practical

- Anything on the first lab practical is fair game for the cumulative practical. You should review all of that information as well. You will not need to spell species from LP1.
- Go over the study guide from the 1st lab practical to see what was covered during the first half of this course.

# Lab Study Guide Labpaq

**J. A. Beran, Mark Lassiter**



## Lab Study Guide Labpaq:

**Biology 185** Robert E. Brader, Andrew B. Brader, 2010-11-15 *Chemistry Lab Basics (Speedy Study Guides)* Speedy Publishing, 2015-01-28 A study guide is an excellent foundation especially when you are pursuing knowledge in science Science is all about facts and provable information In chemistry you study a lot of compounds and combinations of information and without the building blocks you ve got nothing to work with Getting help with those harder concepts and reminding yourself of the easy ones can save your life and make it easier to pass those classes or spark a passion *Chem Lab Basics* Mark Jackson, 2008-05-19 This 2 page study guide contains basic chemistry analysis and concepts designed specifically to aid science students Lab Study Guide to Human Klein, Sueann Ambron, 2001-01 **Laboratory Manual and Study Guide for Integrated Science for Health Students** T. Randall Lankford, 1976 *Biology Lab Basics (Speedy Study Guides)* Speedy Publishing LLC, 2015-04-25 You are exposed to many different types of hazards in a biology lab but you can curtail these risks by going through the theoretical basics first This quick study guide teaches you the safe way to prepare solutions dispose of buffers and chemicals as well as work with equipment and DNA Safety in the laboratory can be made possible if you order a copy today *Chemistry Lab Basics (Speedy Study Guides)* Speedy Publishing LLC, 2015-01-23 A study guide is an excellent foundation especially when you are pursuing knowledge in science Science is all about facts and provable information In chemistry you study a lot of compounds and combinations of information and without the building blocks you ve got nothing to work with Getting help with those harder concepts and reminding yourself of the easy ones can save your life and make it easier to pass those classes or spark a passion **Teaching Lab Science Courses Online** Linda Jeschofnig, Peter Jeschofnig, 2011-02-02 Teaching Lab Science Courses Online is a practical resource for educators developing and teaching fully online lab science courses First it provides guidance for using learning management systems and other web 2 0 technologies such as video presentations discussion boards Google apps Skype video web conferencing and social media networking Moreover it offers advice for giving students the hands on wet laboratory experience they need to learn science effectively including the implications of implementing various lab experiences such as computer simulations kitchen labs and commercially assembled at home lab kits Finally the book reveals how to get administrative and faculty buy in for teaching science online and shows how to negotiate internal politics and assess the budget implications of online science instruction **Essentials of Anatomy & Physiology** Michael G. Wood, 1997 Developed for use in conjunction with Martini s Essentials of Anatomy and Physiology and other standard anatomy and physiology texts this laboratory manual contains descriptive text an art programme and laboratory procedures that guide students through traditional lab activities It follows a body systems approach with an emphasis on student activities and laboratory safety Laboratory Study Guide California water environment association, 1993 *Biology Lab Basics (Speedy Study Guides)* Speedy Publishing, 2015-04-24 You are exposed to many different types of hazards in a biology lab but you can curtail these risks by going through the

theoretical basics first This quick study guide teaches you the safe way to prepare solutions dispose of buffers and chemicals as well as work with equipment and DNA Safety in the laboratory can be made possible if you order a copy today **ABC Science Series** ,1962 *Chemistry Lab Basics (Speedy Study Guides)* MDK Publishing,2015-04-27 Working with chemicals even in a controlled environment is extremely dangerous It is important that you be armed with the right knowledge to practice precautionary measures This study guide was made with your safety in mind It discusses about filtering generation and collection as well as the proper uses of lab instruments Doing experiments while keeping safe is more possible than ever Grab a copy today **Levine/M Lab Guide + Study Guide** Levine,1991-01-01 **Laboratory Manual and Study Guide for Challenges in Science** Richard D. Konicek,1962 *The Fundamentals of Scientific Research* Marcy A. Kelly,2015-09-15 The Fundamentals of Scientific Research An Introductory Laboratory Manual is a laboratory manual geared towards first semester undergraduates enrolled in general biology courses focusing on cell biology This laboratory curriculum centers on studying a single organism throughout the entire semester *Serratia marcescens* or *S marcescens* a bacterium unique in its production of the red pigment prodigiosin The manual separates the laboratory course into two separate modules The first module familiarizes students with the organism and lab equipment by performing growth curves Lowry protein assays quantifying prodigiosin and ATP production and by performing complementation studies to understand the biochemical pathway responsible for prodigiosin production Students learn to use Microsoft Excel to prepare and present data in graphical format and how to calculate their data into meaningful numbers that can be compared across experiments The second module requires that the students employ UV mutagenesis to generate hyper pigmented mutants of *S marcescens* for further characterization Students use experimental data and protocols learned in the first module to help them develop their own hypotheses experimental protocols and to analyze their own data Before each lab students are required to answer questions designed to probe their understanding of required pre laboratory reading materials Questions also guide the students through the development of hypotheses and predictions Following each laboratory students then answer a series of post laboratory questions to guide them through the presentation and analysis of their data and how to place their data into the context of primary literature Students are also asked to review their initial hypotheses and predictions to determine if their conclusions are supportive A formal laboratory report is also to be completed after each module in a format similar to that of primary scientific literature The Fundamentals of Scientific Research An Introductory Laboratory Manual is an invaluable resource to undergraduates majoring in the life sciences *Laboratory Study Guide* California Water Pollution Control Association,1993 **Investigating Biology Lab Manual** Jane B. Reece,2013 With its distinctive investigative approach to learning this best selling laboratory manual encourages students to participate in the process of science and develop creative and critical reasoning skills Students are invited to pose hypotheses make predictions conduct open ended experiments collect data and apply the results to new problems The Seventh Edition

emphasizes connections to recurring themes in biology including structure and function unity and diversity and the overarching theme of evolution Select tables from the lab manual are provided in Excel format in the Study Ar Physical Science for Progress Milton O. Pella,Aubrey G. Wood,1959 *Laboratory Manual for Principles of General Chemistry* J. A. Beran,Mark Lassiter,2022-08-16 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don t write experiments A student s scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition s experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment s Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section

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