

MICROBIOLOGY LAB REPORT

INTRODUCTION

Bacterial identification has significant importance in many different industries including the pharmaceutical industry, when considering microbial contamination. Microbial contamination refers to the accidental introduction of an infectious material, such as bacteria, yeast, fungi or virus, to the production line (Donaldson, 2003). By inspecting for microbial contamination in products, it ensures quality control as there won't be any damage, namely in the way of chemical degradation, which can lead to the loss of efficacy as well as toxic side effects and medicine spoilage, all of which can be detrimental to a patient's health. There would also be a great loss in profit therefore it is an essential investment for a pharmaceutical company to take. Analytical techniques, for example, morphological, biochemical and genetic sequencing tests, can be performed in order to identify different types of microorganisms.

By identifying bacteria, sterilisation of products can take place in the hope of removing pathogens and reducing the risk of contamination. Contamination can occur at any stage of production; however companies regularly assess the purity of a product on a frequently timed schedule to ensure an infested product is not shipped. These routine tests are performed on the raw materials as well as the manufactured medicines. By sourcing the microbe's identity, the growth and metabolism can be investigated with the aim of finding an appropriate way to prevent it from growing any further and elimination; this is usually by recognizing the antibiotic which can destroy the cell membrane or the function of the particular pathogen. This can be done by isolating the strain of microbe and exposing it to various different antibiotics and observing and recording the different sensitivities; a popular method involving this is the disk diffusion method. Additionally, this process can reveal which strains of bacteria are resistant to certain sterilisation techniques and antibiotics. This is an important field of research in microbiology as antibiotic resistance is a common clinical issue that is faced today and is of growing concern in the pharmaceutical industry due to the fact that, every year, routinely used antibiotics are becoming redundant in the face of bacterial resistance (Toy, 2008).

METHODS

Refer to the four microbiology laboratory scripts:

1. Aseptic Technique and Examining the Environment
2. Identification 1 (Case Study)
3. Identification 2
4. Antibiotics

How To Write A Microbiology Lab Report

Tobias Bleicker



How To Write A Microbiology Lab Report:

Troubleshooting and Problem-Solving in the IVF Laboratory Kay Elder, Marc Van den Bergh, Bryan Woodward, 2015-06-18 Maintaining consistent and reliably high success rates is a daily challenge for every IVF laboratory. This step by step guide is an essential aid in navigating the complex maze of physical, chemical, biological, and logistic parameters that underpin successful gamete and embryo culture: temperature, pH, osmolality, gas supplies, air quality, light exposure, infections, managing supplies, personnel, as well as overall quality control. Numerous real life troubleshooting case reports are presented, identifying all aspects necessary for troubleshooting. Process maps and flow charts accompanying each chapter offer a logical and systematic approach to problem solving in the laboratory. This is an essential resource for scientists in assisted reproductive technology and specialists in reproductive biology and medicine, helping IVF clinics to achieve the dream of every infertile couple: the birth of a healthy child. [A Strategic Guide to Technical Communication - Second Edition \(US\)](#) Heather Graves, Roger Graves, 2012-05-23 A Strategic Guide to Technical Communication incorporates useful and specific strategies for writers to enable them to create aesthetically appealing and usable technical documentation. These strategies have been developed and tested on a thousand students from a number of different disciplines over twelve years and three institutions. The second edition adds a chapter on business communication, reworks the discussion on technical style, and expands the information on visual communication and ethics into free standing chapters. The text is accompanied by a passcode protected website containing materials for instructors: PowerPoint lectures, lesson plans, sample student work, and helpful links. **A Concise Guide to Technical Communication** Heather Graves, Roger Graves, 2020-11-06 This compact but complete guide shows that less is more, with fewer extraneous details getting in the way of students trying to learn on the run. It allows them to focus on the most important principles of effective technical communication. The Concise Guide takes a rhetorical approach to technical communication instead of setting up a list of rules that should be applied uniformly to all writing situations. It introduces students to the bigger picture of how the words they write can affect the people intended to read them. Assignments and exercises are integrated throughout to reinforce and test knowledge. **How to Write a Lab Report** Jerome N. Borowick, 2000 This guide outlines an effective methodology for writing the experimental laboratory report, showing how skills that emphasize correct grammar and appropriate style must be adapted to writing reports with a purpose: reports that emphasize structure and content to persuade the readers. It first covers basic principles, then explores each section of a report step by step, with sample report sections and critiques. The Laboratory Report Writing Process: Principles of Clear Lab Report Writing, Rules of Practice for Lab Report Writing, Graphics, The Title Page and Table of Contents, The Beginning of the Report, The Body of the Report, The Ending of the Report, A Sample Student Lab Report. For anyone who must write lab reports as part of their professional responsibilities. [Basic Skills in Interpreting Laboratory Data](#) Mary Lee, 2009-02-26 This new edition of Basic Skills in Interpreting Laboratory Data, 4th

Edition is a case based learning tool that will enhance your skills in clinical lab test interpretation. It provides fundamentals of interpreting lab test results not only for pharmacy students but also for practitioners as an aid in assessing patient drug treatment responses. It is the only text written by and for pharmacists and provides case studies and practical information on patient therapy. Since the publication of the third edition much has changed in the clinical lab and in the hospital pharmacy. Consequently the new fourth edition incorporates significant revisions and a wealth of important new information. NEW TO THIS EDITION Three new chapters including new information on men's health, women's health and pharmacogenomics and laboratory tests. Mini cases embedded in each chapter provide therapy related examples and reinforce important points made in the text. Quickview Charts give an overview of important clinical information including reference ranges and critical values. Learning Points focus on a clinical application of a major concept present in the chapter.

Laboratory Experiments in Microbiology Ted R. Johnson, Christine L. Case, 2004 Newly revised to accompany Microbiology An Introduction Eighth Edition by Tortora Funke and Case this lab manual includes 57 experiments that demonstrate the broad spectrum of microbiology. Intended as a manual of basic microbiological techniques this popular lab manual features applications for undergraduate students in diverse areas including the biological sciences, the allied health sciences, agriculture, environmental science, nutrition, pharmacy and various pre professional programs. Experiments have been refined in this new edition to encourage students to develop critical thinking skills as well as learn basic facts and technical skills. Material with direct application to clinical and commercial labs is included wherever possible and increased emphasis is placed on lab safety.

Laboratory Manual in General Microbiology Michigan State University. Dept. of Bacteriology and Public Health, Michigan Agricultural College. Department of Bacteriology and Hygiene, 1921 The full text of the first edition 1916 is available at <http://www.biodiversitylibrary.org/item/62094>

Laboratory Manual in General Microbiology Michigan State University. Department of Bacteriology and Public Health, 1921

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American Jurisprudence Trials, 1964 An encyclopedic guide to the modern practices, techniques and tactics used in preparing and trying cases with model programs for the handling of all types of litigation.

Business Writing for Results Jane K. Cleland, 2003-04-22 Clear and persuasive writing holds the key to career success and advancement. Yet far too few people have learned the styles and strategies that are essential for successful business writing. *Business Writing for Results* written by one of today's most popular and motivational business writing trainers outlines an easy to use and easy to remember three step system for crafting letters, proposals, E mails, reports and memos that are powerful and persuasive and guaranteed to produce results.

Pathology Laboratories Handbook, 1997

Annual Report, Fiscal Year Colorado. Department of Public Health and Environment. Laboratory Services Division, 2006

Clinical Diagnosis and Management by Laboratory Methods John Bernard Henry, 1991 Provides information on

laboratory diagnosis and management through specific measurements and examinations Focusing on medical problem solving this book examines such topics as clinical chemistry medical microscopy haematology and coagulation immunology and immunopathology **Handbook of Clinical Courses for Junior and Senior Medical Students** University of California, Los Angeles. School of Medicine,1986 **Lab World** ,1981 FDA Compliance Program Guidance Manual United States. Food and Drug Administration,1992 **Annual Report and Statement of Accounts** Kenya Industrial Research and Development Institute,1988 *Molecular Biology of the Cell* ,2001 **Handbook of Courses for Junior and Senior Medical Students** University of California, Los Angeles. School of Medicine,1990

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