

## Part I: Lab Practical

## 1. Types of Leukocytes



## 2. Identify the Following Tests and answer the questions (probably):

NAME:	Catalase Test	Oxidase Test	Phenol Red (both 24hr) Fermentation Test Dextrose: Lactose: Sucrose:	MR / VP (both 48hr) Fermentation Test		Citrate Utilization Test (slant 48hr)	Urea Hydrolysis Test (slant 24hr)	Nitrate Reduction Test (both 48hr)	Phenylalanine Deaminase Test (slant 24hr)
PURPOSE: (test for)	aerobic bacteria utilize O <sub>2</sub> as final e- in ETC, MO can synthesize catalase	Identify presence or absence of cytochrome C oxidase	utilize various carbohydrates (glucose, lactose, sucrose)	MO perform mixed acid fermentation	MO ferment glucose	MO utilizes citrate as members of Enterobacteriaceae	MO hydrolyze urea	reduction of nitrate	presence of phenylalanine deaminase diff. members of enterobacteriaceae fam: <i>Morganella</i> sp, <i>Proteus</i> sp, <i>Providencia</i> sp
RESULTS:	2H <sub>2</sub> O + O <sub>2</sub>	catalyze reduction of cytochrome C by tetramethyl-p-phenylene diamine	pH color change indicator, gas production	stable acid products	acid to acetoin & 2,3-butanediol	citrate permease & citrate lyase	ammonia	nitrate - nitrite nitrate - nitrite - molecular nitrogen	removal of amine group
MEDIA:	slide	Q-tip	differential phenol red broth, Durham tube	MR/VP broth		Simmons citrate agar	urea agar	beef extract, peptone, KNO <sub>3</sub> , Durham tube	phenylalanine agar
SUBSTRATE:			glucose lactose sucrose	glucose		sodium citrate (C source) & ammonium phosphate (N source)			phenylpyruvic acid
REAGENT/ pH ind.	Hydrogen peroxide 2H <sub>2</sub> O <sub>2</sub>	chromogenic reducing agent (chem. develops color as it becomes oxidized)	Phenol red pH indicator	methyl red	1% α-naphthol & 40% potassium hydroxide	bromothymol blue pH ind. (in slant)	phenol red pH ind.	sulfanilic acid & α-naphthylamine, zinc	12% ferric chloride
POS. appearance	bubbles	dark blue/purple	yellow = acidic (ferments) bubbles in Durham tube	red color	red	Blue = alkalization	yellow = < 6.8 red = 7.4-8.4	red (both reagents) no color (after adding zinc)	green
NEG. appearance	no bubbles	no color change	No color change, no bubbles	no color change	no color change	no color change	pink = >8.4	red (both reagents + zinc)	yellow
Oxygen Requirement	Obligate aerobe=				Facultative anaerobe=				
	Obligate anaerobe=				Microaerophile=				

# Microbiology Lab Study Guide

**RJ Shavelson**



## Microbiology Lab Study Guide:

*Microbiology Lab Manual* John Harley, 2010-02-01 Laboratory Exercises in Microbiology 8 e has been prepared to accompany Prescott's Microbiology 8e written by new authors Joanne Willey Linda Sherwood and Christopher Woolverton Like the text the laboratory manual provides a balanced introduction to laboratory techniques and principles that are important in each area of microbiology **Laboratory Manual and Study Guide for Integrated Science for Health**

**Students** T. Randall Lankford, 1976 *Microbiology - Biology 221* Robert Hairston, 2019-10-28 Study Guide and Procedure Checklist Manual for Kinn's The Medical Assistant - E-Book Brigitte Niedzwiecki, Julie Pepper, P. Ann

Weaver, 2022-06-18 Designed to support the trusted content in Kinn's The Medical Assistant 14th Edition this study guide is the essential review and practice companion to reinforce key concepts encourage critical thinking and ensure that you learn to master and apply key medical assisting content This robust companion guide offers a wide range of exercises to reinforce your understanding of common administrative and clinical skills including new certification preparation questions that offer additional practice for certification exams a review of medical terminology and anatomy and need to know workplace applications Trusted for more than 60 years as a key part of the student journey from classroom to career it also features competency checklists to clearly assess your performance and progression from day one until you land your first job as a Medical Assistant Comprehensive coverage of all administrative and clinical procedures is built from Medical Assisting accreditation standards and competencies Hundreds of practice questions multiple choice true false fill in the blank help students with essential content review and practice Skills practice workplace applications and online activities promote critical thinking before students enter practice Procedure checklists help students track their performance of every procedure included in the textbook Work products allows students to provide documentation of skills mastery for classroom or job searching requirements Chapter by chapter correlation with the textbook allows students to easily follow core textbook competencies Perforated pages for on the go study or turn in assignments and evaluations NEW Chapter reviews medical terminology anatomy and physiology and pathology to reinforce key foundational knowledge NEW Expanded content on medical office accounts collections banking and practice management prepares students to step into the role of a Medical Assistant NEW Certification Preparation questions help students focus on certification from the beginning of their studies NEW Streamlined presentation combines chapters and focuses on need to know content *A Practical Guide to Environmental Biotechnology* Jayanta Kumar Patra, Gitishree Das, Swagat Kumar Das, Hrudayanath Thatoi, 2020-08-03 This textbook provides practical guidelines on conducting experiments across the entire spectrum of environmental biotechnology It opens with general information on laboratory safety rules and regulations as well as a description of various equipment commonly used in environmental laboratories It then discusses in detail the major experiments in basic and advanced environmental studies including the analysis of water and soil samples the isolation culture and biochemical characterization

of microbes and plant tissue culture techniques and nutrient analyses Each chapter features detailed method sections and easy to follow protocols and offers guidance on calculations and formulas as well as illustrative flow charts to assist with troubleshooting for each experiment Given its scope the book is an invaluable aid for laboratory researchers studying environmental biotechnology and a rich source of information and advice for advanced undergraduates and graduates in the fields of environmental science and biotechnology

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*Laboratory Experiments in Microbiology* Christine L. Case, Ted R. Johnson, 1984 Microbiology Jacquelyn G. Black, 1996 This text follows a body systems approach to microbiology paying attention to real life connections and covering such topics as the characteristics of microbial metabolism growth and genetics

*Medical and Health Care Books and Serials in Print*, 1997 **Microbiology** James G. Cappuccino, Chad T. Welsh, 2016-01-12 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book For courses in Microbiology Lab and Nursing and Allied Health Microbiology Lab A Flexible Approach to the Modern Microbiology Lab Easy to adapt for almost any microbiology lab course this versatile comprehensive and clearly written manual is competitively priced and can be paired with any undergraduate microbiology text Known for its thorough coverage

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*Biology/science Materials* Carolina Biological Supply Company,1991

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*The Publishers' Trade List Annual* ,1989

*Program of the ... Annual*

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