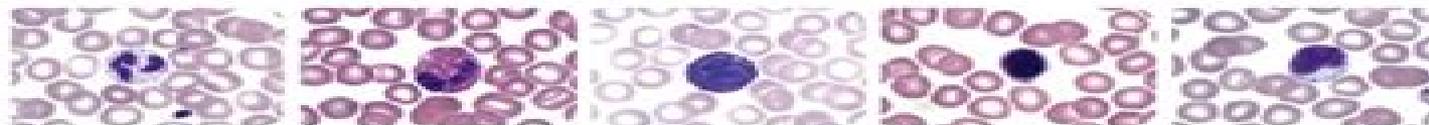


Part I: Lab Practical

1. Types of Leukocytes



Neutrophil

Eosinophil

Basophil

Lymphocyte

Monocyte

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 De-aminase Test (slant 24hr)	
PURPOSE: (test for)	aerobic bacteria utilize O ₂ 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 Enterobacteria base	MO hydrolyze urea	presence of phenylalanine deaminase diff. members of enterobacteriaceae fam: Morganella sp, Proteus sp, Providencia sp	
RESULTS:	2H ₂ O + O ₂	catalyze reduction of cytochrome C by tetrahydro- <i>p</i> -phenylene diamine	pH color change indicator, gas production	stable acid products	acid to acetoin & 2,3-butanediol	citrate permease & citrate lyase	ammonia	removal of amine group	
MEDIA:	slide	Q-sp	differential phenol red broth, Durham tube	MR/VP broth	Simmons citrate agar	urea agar	beef extract, peptone, KNO ₃ , 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 ₂ O ₂	chromogenic reducing agent (chrom. therefore color at 5-60min 0.0025-0.5)	Phenol red pH indicator	methyl red	1% <i>o</i> -naphthol & 40% potassium hydroxide	bromothymol blue pH inc. (in slant)	phenol red pH ind.	sulfanilic acid & <i>o</i> -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

John Harley



Microbiology Lab Study Guide:

Microbiology - Biology 221 Robert Hairston, 2019-10-28 **Laboratory Manual and Study Guide for Integrated Science for Health Students** T. Randall Lankford, 1976 **Study Guide and Procedure Checklist Manual for Kinn's The Medical Assistant - E-Book** Brigitte Niedzwiecki, Julie Pepper, P. Ann Weaver, 2022-06-18

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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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Subject Guide to Books in Print, 1996 **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

Laboratory Experiments in Microbiology Christine L. Case, Ted R. Johnson, 1984 **Microbiology Perspectives** George A. Wistreich, 1999 Presents a complete easy to use and highly illustrated introduction to basic and advanced laboratory

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