

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 24hrs) Fermentation Test Dextrose: Lactose: Sucrose:	MIR / VP (both 48hrs) Fermentation Test	Citrate Utilization Test (over 48hrs)	Urea Hydrolysis Test (over 24hrs)	Nitrate Reduction Test (over 48hrs)	Phenylalanine Deaminase Test (over 24hrs)
PURPOSE: (test for)	detects free oxygen (O ₂) that is in ETC. MO can synthesize catalase	Identify pathogens by absence or presence of cytochrome C oxide	utilize various carbohydrates (glucose, lactose, sucrose)	MO perform mixed acid fermentat ion	MO ferment glucose	MO utilizes citrate all members of Enterobacteri aceae	MO hydrolyze urea	presence of phenylalanine deaminase diff. members of Enterobacteri aceae & some Proteobacteri ae. Proteins ap. Proteolysis ap.
RESULTS:	2H ₂ O + O ₂	catalyze reduction of cytochrome C By fermentation phenylalanine deaminase	pH color change indicator, gas production	stable acid products	acid to acetoin & 2,3- butanedi ol	citrate permease & citrate lyase	ammonia	nitrate - nitrite nitrate - nitrite - molecular nitrogen
MEDIA:	slide	Q-Sp	differential phenol red broth, Durham tube	MIR/VP broth	Simmons- citrate agar	urea agar	peptone Durham tube	phenylalanine agar
SUBSTRATE:			glucose lactose sucrose	glucose	sodium citrate (C source) & ammonium phosphate (P source)			phenylpyruvic acid
REAGENT/ pH Ind.	Hydroge n peroxide 2H ₂ O ₂	hydrogen reducing agent (fermen tation color ap. it becomes oxidized)	Phenol red pH indicator	methyl red	5% α - naphthol & 40% potassium hydroxide	bromothym ol blue pH ind. (in slant)	phenol red pH Ind.	sulfanilic acid & α - naphthyl am line, zinc
Pos. appearance	bubbles	dark blue/purple	Yellow = acidic (ferments) bubbles in Durham tube	red color	red	Blue = alkalinization	Yellow = < 6.8 red = 7-8- 9.4	red (both reagents) no color (after adding zinc)
Neg. appearance	no bubbles	no color change	No color change, no bubbles	no color change	no color change	no color change	pink = >8.4	green
Oxygen Requirement	Obligate aerobe =				Facultative anaerobe =			
	Obligate anaerobe =				Micro-aerophile =			

Microbiology Lab Study Guide

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Microbiology Lab Study Guide:

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 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

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