

## 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			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 Final Study Guide

**Yan Bai**



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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. Resources in Education, 1984

*Clinical Laboratory Management* Timothy C. Allen, Vickie S. Baselski, Deirdre L. Church, Donald S. Karcher, Michael R. Lewis, Andrea J. Linscott, Melinda D. Poulter, Gary W. Procop, Alice S. Weissfeld, Donna M. Wolk, 2024-03-25 Clinical Laboratory Management Apply the principles of management in a clinical setting with this vital guide. Clinical Laboratory Management Third Edition, edited by an esteemed team of professionals under the guidance of editor in chief Lynne S. Garcia, is a comprehensive and essential reference for managing the complexities of the modern clinical laboratory. This newly updated and reorganized edition addresses the fast-changing landscape of laboratory management, presenting both foundational insights and innovative strategies. Topics covered include an introduction to the basics of clinical laboratory management, the regulatory landscape and evolving practices in the modern healthcare environment, the essence of managerial leadership with insights into employee needs and motivation, effective communication and personnel management, including the lack of qualified position applicants, burnout, and more. Financial management, budgeting, and strategic planning, including outreach, up-to-date resources for laboratory coding, reimbursement, and compliance reflecting current requirements, standards, and challenges, benchmarking methods to define and measure success, the importance of test utilization and clinical relevance, future trends in pathology and laboratory science, including developments in test systems, human resources and workforce development, and future directions in laboratory instrumentation and information technology. An entirely new section devoted to pandemic planning, collaboration, and response, lessons learned from COVID-19, and a look towards the future of laboratory preparedness. This indispensable edition of Clinical Laboratory Management not only meets the needs of today's clinical laboratories but anticipates the future, making it a must-have resource for laboratory professionals, managers, and students. Get your copy today and equip yourself with the tools, strategies, and insights to excel in the complex and ever-changing world of the clinical laboratory. The Publishers' Trade List Annual, 1985 **Practical**

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web mutu baja menurut pbi 1971 tegangan leleh baja kg cm<sup>2</sup> u 22 baja lunak 2200 kg cm<sup>2</sup> u 24 baja lunak 2400 kg cm<sup>2</sup> u 32 baja sedang 3200 kg cm<sup>2</sup> u 39 baja keras 3900 kg cm<sup>2</sup> u 48 baja keras 4800 kg cm<sup>2</sup> tegangan tarik tekan yang diijinkan kg cm<sup>2</sup> beban tetap beban sementara u 22 1250 1800 u 24 1400 2000 u 32 1850 2650 u

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