

**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)
<b>PURPOSE:</b> (test for)	detects free oxygen (O <sub>2</sub> ) 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.
<b>RESULTS:</b>	2H <sub>2</sub> O + O <sub>2</sub>	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
<b>MEDIA:</b>	slide	Q-Sp	differential phenol red broth, Durham tube	MIR/VP broth	Simmons- citrate agar	urea agar	peptone Durham tube	phenylalanine agar
<b>SUBSTRATE:</b>			glucose      lactose      sucrose	glucose	sodium citrate (C source) & ammonium phosphate (P source)			phenylpyruvic acid
<b>REAGENT/ pH Ind.</b>	Hydroge n peroxide 2H <sub>2</sub> O <sub>2</sub>	hydrogen reducing agent (fermen tation color ap. it becomes oxidized)	Phenol red pH indicator	methyl red	5% $\alpha$ - naphthol & 40% potassium hydroxide	bromothym ol blue pH ind. (in slant)	phenol red pH Ind.	sulfanilic acid & $\alpha$ - naphthyl am line, zinc
<b>Pos. appearance</b>	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)
<b>Neg. appearance</b>	no bubbles	no color change	No color change, no bubbles	no color change	no color change	no color change	pink = >8.4	green
<b>Oxygen Requirement</b>	Obligate aerobe =				Facultative anaerobe =			
	Obligate anaerobe =				Micro-aerophile =			

# Microbiology Lab Study Guide

**Jacquelyn G. Black**

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Microbiology. Study Guide and Laboratory Manual Charles Wesley Buggs,1959    **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

**Loose Leaf for Laboratory Applications in Microbiology: A Case Study**

**Approach** Barry Chess, Instructor,2014-05-21 Laboratory Applications in Microbiology A Case Study Approach includes a photo atlas with more than 250 full color images This lab uses real life case studies as the basis for exercises in the laboratory This is the only microbiology lab manual focusing on this means of instruction an approach particularly applicable to the microbiology laboratory The author has carefully organized the exercises so that students develop a solid intellectual

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**Microorganisms in Our World** Ronald M. Atlas,1995 Scientific study of microorganisms Micobial physiology cellular biology Microbial genetics molecular biology Microbial replication and growth Microorganisms and human diseases Applied and environmental microbiology Survey of microorganisms

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understand your areas of expertise the purpose of this  
physical therapy assistant pta skills checklist - Jan 28 2022

web apr 26 2014 start now strong physical strong strong therapy strong strong assistant strong strong pta strong strong skills strong

*physical therapy competency checklist fill online printable* - Dec 27 2021

web 01 start by carefully reviewing the competency checklist and familiarizing yourself with the requirements and expectations outlined 02 go through each competency item one by

**physiotherapist assistant competency checklist** - Sep 04 2022

web review the roles and responsibilities with the physiotherapist assistant verify the physiotherapist assistant's knowledge learn about the physiotherapist assistant's

**initial competency assessment skills** - Jul 02 2022

web self assessment competency for the physical therapist proficiency required evaluation method competency validation indicated by preceptors initials and date do you have

master competency checklist mcgraw hill medical - Dec 07 2022

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