

**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

**Xiang Xie**

## **Microbiology Lab Study Guide:**

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