

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 (gent 48hrs)	Urea Hydrolysis Test (gent 24hrs)	Nitrate Reduction Test (gent 24hrs)	Phenylalanine Deaminase Test (gent 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. Proteus sp. Providencia sp.
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 Dulbecco's medium, peptone, KHCO ₃ , 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 (catalase catalyzes decomposes hydrogen peroxide)	Phenol red pH indicator	methyl red	5% α - naphthol & 40% potassium hydrogen sulfite (in slant)	bromothym ol blue pH ind. (in slant)	phenol red pH Ind.	sulfanilic acid & α - naphthyl am line, zinc 12% ferris chloride
Pos. appearance	bubbles	dark blue/purple	Yellow = acidic (ferments) bubbles in Durham tube	red color	red	Blue = alkalinization	Yellow = < 6.8 red = 7.4- 8.4	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 Final Study Guide

David Baud

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