## Part I: Lab Practical

#### 1. Types of Leukocytes



#### 2. Identify the Following Tests and answer the questions (probably):

NAME:	Catarase Test	Oxidase Test	Phenol Red (both 24ks) Fementation fest Destrose: Lactose: Sucrose:		MR /VP (booth 48hex) Fermandation Set		Citrate Utilization Test cruss 400no	Urea Hydrolysis Test (nant 24tes)	Nitrate Reduction Test (booth 480cg)	Phenylalanine Deaminase Test own24vo
PURPOSE: (test for)	a enoble bac utilizer O as final e in ETC, MO can synthesize cotal see	i-dentity presented or abstance of cylochrome C oxide	utilize various carbohydrates (glucose, lactose, sucrose)		MO perform mixed acid fermentat ion	MO ferment glucose	MO utilizes citrate aim members of Enterobacteria ceae	MO hydrolyce wros	reduction of nitrate	presence of pherylatarine deaminase diff, in embers of enterobacteriacea e tam: Moguzeella sp. Proteius sp. Providencia sp.
RESULTS:	2H2O + O2	catalyze reduction of cyto-throme C by fetrame Trylip phenylene du mine	pH color change indicator, gas production		stable acid products	acid to acetonin 8. 2,3- butanedi ol	citrate permease 8. citrate lyase	ammonia	nitrate - nitrite nitrate - nitrite - molecular nitrogen	removal of amine group
MEDIA:	slide	q-ap	differential phenol red broth, Durham tube		MR/VP broth		Simmons citrate agar	urea agar	beefedract, peptone, RNOs8 Durham tube	phenylalanine agar
SUBSTRATE:			glucose llactose sucrose		glucose		sodium obste (C source) & ammonium phosphate (N source)			phenylpyruvic acid
REAGENT/ pH ind.	Hydroge n peroxide 2H2O2	chromogeni o reducing agent (ohem, develops color at it be comes soddis d)	Phenol ned pH indicator		metnyl red	1% a- naphthol & 40% pota ssium hydroxide	bromothym of blue pH inc. (in slant)	phenol red pH ind.	sulfanilic acid & a- naphthylam ine, zinc	12% ferris chloride
POS. appearence	bubbles	dark blue/purp le	Yellow = acidic (ferments) bubbles in Durham tube		red color	red	Blue = alikalinizatio n	yellow= < 6.8 red= 7.4- 8.4	red (both reagents) no color (after adding zinc)	green
NEG. appearence	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	Obligate aerobe=				Facultative anaerobe=					
Requirement	Obligate anaerobe=					Microaerophile=				

# **Study Guide On Pearson Microbiology Lab**

Antonios Chrysargyris, Monica Höfte, Nikos Tzortzakis, Spyridon Alexandros Petropoulos, Francesco Di Gioia

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