## 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 (xxxx 24xx) Fementation Text Destrose: Lactose: Sucrose:		MR /VP (boots 48hos) Farmantation Yest		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	iutilize 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	lactose 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 red 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 (fements) 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**

**Ronald M. Atlas** 

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# **Table of Contents Study Guide On Pearson Microbiology Lab**

- 1. Understanding the eBook Study Guide On Pearson Microbiology Lab
  - The Rise of Digital Reading Study Guide On Pearson Microbiology Lab
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Study Guide On Pearson Microbiology Lab
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Study Guide On Pearson Microbiology Lab
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Study Guide On Pearson Microbiology Lab
  - Personalized Recommendations
  - Study Guide On Pearson Microbiology Lab User Reviews and Ratings
  - Study Guide On Pearson Microbiology Lab and Bestseller Lists
- 5. Accessing Study Guide On Pearson Microbiology Lab Free and Paid eBooks
  - Study Guide On Pearson Microbiology Lab Public Domain eBooks
  - Study Guide On Pearson Microbiology Lab eBook Subscription Services
  - Study Guide On Pearson Microbiology Lab Budget-Friendly Options
- 6. Navigating Study Guide On Pearson Microbiology Lab eBook Formats
  - ePub, PDF, MOBI, and More
  - Study Guide On Pearson Microbiology Lab Compatibility with Devices
  - Study Guide On Pearson Microbiology Lab Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Study Guide On Pearson Microbiology Lab
  - Highlighting and Note-Taking Study Guide On Pearson Microbiology Lab
  - Interactive Elements Study Guide On Pearson Microbiology Lab

- 8. Staying Engaged with Study Guide On Pearson Microbiology Lab
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Study Guide On Pearson Microbiology Lab
- 9. Balancing eBooks and Physical Books Study Guide On Pearson Microbiology Lab
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Study Guide On Pearson Microbiology Lab
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide On Pearson Microbiology Lab
  - Setting Reading Goals Study Guide On Pearson Microbiology Lab
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide On Pearson Microbiology Lab
  - Fact-Checking eBook Content of Study Guide On Pearson Microbiology Lab
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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