

## 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 24hr) Fermentation Test Dextrose: Lactose: Sucrose:	MR / VP (both 48hr) Fermentation Test		Citrate Utilization Test (slant 48hr)	Urea Hydrolysis Test (slant 24hr)	Nitrate Reduction Test (both 48hr)	Phenylalanine Deaminase Test (slant 24hr)
PURPOSE: (test for)	aerobic bacteria utilize O <sub>2</sub> as final e <sup>-</sup> in ETC, MO can synthesize catalase	Identify presence or absence of cytochrome C oxidase	utilize various carbohydrates (glucose, lactose, sucrose)	MO perform mixed acid fermentation	MO ferment glucose	MO utilizes citrate as members of Enterobacteriaceae	MO hydrolyze urea	reduction of nitrate	presence of phenylalanine deaminase diff. members of enterobacteriaceae fam: <i>Morganella</i> sp, <i>Proteus</i> sp, <i>Providencia</i> sp
RESULTS:	2H <sub>2</sub> O + O <sub>2</sub>	catalyze reduction of cytochrome C by tetramethyl-p-phenylene diamine	pH color change indicator, gas production	stable acid products	acid to acetoin & 2,3-butanediol	citrate permease & citrate lyase	ammonia	nitrate - nitrite nitrate - nitrite - molecular nitrogen	removal of amine group
MEDIA:	slide	Q-tip	differential phenol red broth, Durham tube	MR/VP broth		Simmons citrate agar	urea agar	beef extract, peptone, KNO <sub>3</sub> , Durham tube	phenylalanine agar
SUBSTRATE:			glucose lactose sucrose	glucose		sodium citrate (C source) & ammonium phosphate (N source)			phenylpyruvic acid
REAGENT/ pH ind.	Hydrogen peroxide 2H <sub>2</sub> O <sub>2</sub>	chromogenic reducing agent (chem. develops color as it becomes oxidized)	Phenol red pH indicator	methyl red	1% α-naphthol & 40% potassium hydroxide	bromothymol blue pH ind. (in slant)	phenol red pH ind.	sulfanilic acid & α-naphthylamine, zinc	12% ferric chloride
POS. appearance	bubbles	dark blue/purple	yellow = acidic (ferments) bubbles in Durham tube	red color	red	Blue = alkalization	yellow = < 6.8 red = 7.4-8.4	red (both reagents) no color (after adding zinc)	green
NEG. appearance	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 Requirement	Obligate aerobe=				Facultative anaerobe=				
	Obligate anaerobe=				Microaerophile=				

# Microbiology Study Guide For Lab Technician

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Ingersoll, Jacquelyn Marshall, 1998-11-12 This Study Guide and Laboratory Manual is designed to accompany Essentials of Diagnostic Microbiology It is subdivided into Part I Study Guide and Part II Laboratory Manual Together these parts will help you learn and reinforce your knowledge of diagnostic microbiology *Medical Lab Tech Exam Cheat Sheets: High-Yield*

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**Senior Laboratory Technician (Microbiology)** National Learning Corporation, 2014 The Senior Laboratory Technician Microbiology Passbook R prepares you for your test by allowing you to take practice exams in the subjects you need to study It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam including but not limited to laboratory principles and practices use care and operation of laboratory instruments record keeping supervision biochemistry and more **Study Guide and Procedure Checklist Manual for**

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**Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education,2000

*National Library of Medicine Audiovisuals Catalog* National Library of Medicine (U.S.), **Evolution, Molecular**

**Mechanisms and the Strategies to Combat Antimicrobial Resistance (AMR): A One Health Approach** Nayeem Ahmad,Vineet Kumar,Mohammad Shahid,Ronni Mol Joji ,Leonardo Pagani,2025-02-21 Humanity animals and the ecosystem are seriously threatened by antimicrobial resistance A significant reason is the inappropriate use of antimicrobials in the human animal and environmental sectors as well as the global spread of resistant bacteria and resistance genes Lately the use of antimicrobials in animals raised for human consumption has become a significant public health issue The environment also has a big impact in the interface between human and animal health through biodiversity loss climate change and pollution A sustainable balance and optimization of the health of people animals and ecosystems are the goals of the comprehensive unifying approach known as One Health To battle and contain antimicrobial resistance within a One Health strategy rigorous antimicrobial resistance surveillance along with strict execution of the core plan and action should be carried out at various sectors individually and collectively at the national and worldwide level **Subject Guide to Books**

**in Print** ,1993 *Film Reference Guide for Medicine and Allied Sciences* ,1961 **A Guide to the Evaluation of Educational Experiences in the Armed Services** ,2002 *Introduction to Diagnostic Microbiology for the Laboratory Sciences* Maria Dannessa Delost,2015 Introduction to Diagnostic Microbiology for the Laboratory Sciences provides a foundation in microbiology that is essential for a career as a medical laboratory technologist technician MLT A key text for students and a helpful reference for practitioners it reviews the microorganisms most commonly encountered in clinical settings and clearly explains basic laboratory procedures This text provides a concise overview of topics and facilitates comprehension with learning objectives key terms case studies and review questions In addition the text includes laboratory exercises eliminating the need for a separate laboratory manual Covering content required in the MLT curriculum and featured on the certification exam this accessible text will help prepare students for a career in laboratory science Key Features Reviews the microorganisms most important in clinical practice Explains basic laboratory procedures such as specimen collection and staining Includes laboratory exercises in the text no need for a separate manual Serves as a helpful on the job reference for laboratory practitioners Provides practice questions to help students prepare for the medical technology certification exam CHAPTER PEDAGOGY Chapter Outline Key Terms Learning Objectives Procedures Laboratory Exercises Case Studies Review Questions INSTRUCTOR RESOURCES Image Bank with 247 photos and illustrations PowerPoint Presentations per chapter Laboratory Exercise Worksheets and a Test Bank with 450 multiple choice questions and a 225 question exam Introduction to Diagnostic Microbiology for the Laboratory Sciences is on the recommended

reading list to prepare for the ASCP MLT exam American Society for Clinical Pathology Medical Laboratory Technician exam  
ASM News ,2000      **Survey of Medical Technology** Roger W. Coltey,1978      *Turtox Service Leaflets* General  
Biological Supply House,1961      **The Publishers' Trade List Annual** ,1985      **Microbiology Perspectives** George A.  
Wistreich,1999 Presents a complete easy to use and highly illustrated introduction to basic and advanced laboratory  
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