

**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)<br>Fermentation Test Dextrose:<br>Lactose: Sucrose: | MIR / VP (both 48hrs)<br>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><br>(test for) | detects free oxygen (O <sub>2</sub> )<br>that is in ETC. MO can<br>synthesize catalase | Identify<br>pathogens by<br>absence or<br>presence of<br>cytochrome C<br>oxide               | utilize various<br>carbohydrates<br>(glucose, lactose,<br>sucrose)          | MO<br>perform<br>mixed<br>acid<br>fermentat<br>ion | MO<br>ferment<br>glucose  | MO utilizes<br>citrate all<br>members of<br>Enterobacteri<br>aceae | MO hydrolyze<br>urea                | presence of<br>phenylalanine<br>deaminase diff.<br>members of<br>Enterobacteri<br>aceae & some<br>Proteobacteri<br>ae. Proteins ap.<br>Proteolysis ap. |
| <b>RESULTS:</b>               | 2H <sub>2</sub> O + O <sub>2</sub>   | catalyze<br>reduction of<br>cytochrome C<br>By<br>fermentation<br>phenylalanine<br>deaminase | pH color change<br>indicator, gas<br>production                             | stable<br>acid<br>products                         | acid to<br>acetoin<br>& 2,3-<br>butanedi<br>ol                        | citrate<br>permease<br>& citrate<br>lyase                          | ammonia                             | nitrate - nitrite<br>nitrate - nitrite<br>- molecular<br>nitrogen  |
| <b>MEDIA:</b>                 | slide  | Q-Sp   | differential phenol red<br>broth, Durham tube                               | MIR/VP broth                                       | Simmons-<br>citrate agar  | urea agar  | peptone<br>Durham tube              | phenylalanine<br>agar  |
| <b>SUBSTRATE:</b>             |  |  | glucose      lactose      sucrose   | glucose  | sodium citrate<br>(C source) &<br>ammonium<br>phosphate (P<br>source) |  |                                     | phenylpyruvic<br>acid  |
| <b>REAGENT/ pH Ind.</b>       | Hydroge<br>n peroxide<br>2H <sub>2</sub> O <sub>2</sub>                                | hydrogen<br>reducing<br>agent (fermen<br>tation<br>color ap. it<br>becomes<br>oxidized)      | Phenol red pH indicator   | methyl<br>red                                      | 5% $\alpha$ -<br>naphthol &<br>40%<br>potassium<br>hydroxide          | bromothym<br>ol blue pH<br>ind. (in<br>slant)                      | phenol red<br>pH Ind.               | sulfanilic<br>acid & $\alpha$ -<br>naphthyl am<br>line, zinc   |
| <b>Pos.<br/>appearance</b>    | bubbles  | dark<br>blue/purple  | Yellow = acidic<br>(ferments) bubbles in<br>Durham tube                     | red color  | red   | Blue =<br>alkalinization   | Yellow = <<br>6.8 red = 7-8-<br>9.4 | red (both<br>reagents) no<br>color (after<br>adding zinc)  |
| <b>Neg.<br/>appearance</b>    | no<br>bubbles  | no color<br>change   | No color change, no<br>bubbles  | no color<br>change                                 | no color<br>change  | no color<br>change   | pink = >8.4                         | green  |
| <b>Oxygen<br/>Requirement</b> | Obligate aerobe =  |  |   |  | Facultative anaerobe =  |  |                                     |  |
|                               | Obligate anaerobe =  |  |   |  | Micro-aerophile =   |  |                                     |  |

# Microbiology Lab Final Study Guide

**R. Barry King, John K. Sheldon, Gilbert  
M. Long**

## **Microbiology Lab Final Study Guide:**

*A Practical Guide to Environmental Biotechnology* Jayanta Kumar Patra, Gitishree Das, Swagat Kumar Das, Hrudayanath Thatoi, 2020-08-03 This textbook provides practical guidelines on conducting experiments across the entire spectrum of environmental biotechnology. It opens with general information on laboratory safety rules and regulations as well as a description of various equipment commonly used in environmental laboratories. It then discusses in detail the major experiments in basic and advanced environmental studies including the analysis of water and soil samples, the isolation culture and biochemical characterization of microbes and plant tissue culture techniques and nutrient analyses. Each chapter features detailed method sections and easy to follow protocols and offers guidance on calculations and formulas as well as illustrative flow charts to assist with troubleshooting for each experiment. Given its scope the book is an invaluable aid for laboratory researchers studying environmental biotechnology and a rich source of information and advice for advanced undergraduates and graduates in the fields of environmental science and biotechnology.

**Resources in Education**, 1984

*Clinical Laboratory Management* Timothy C. Allen, Vickie S. Baselski, Deirdre L. Church, Donald S. Karcher, Michael R. Lewis, Andrea J. Linscott, Melinda D. Poulter, Gary W. Procop, Alice S. Weissfeld, Donna M. Wolk, 2024-03-25 Clinical Laboratory Management Apply the principles of management in a clinical setting with this vital guide. Clinical Laboratory Management Third Edition edited by an esteemed team of professionals under the guidance of editor in chief Lynne S Garcia is a comprehensive and essential reference for managing the complexities of the modern clinical laboratory. This newly updated and reorganized edition addresses the fast changing landscape of laboratory management presenting both foundational insights and innovative strategies. Topics covered include an introduction to the basics of clinical laboratory management, the regulatory landscape and evolving practices in the modern healthcare environment, the essence of managerial leadership with insights into employee needs and motivation, effective communication and personnel management including the lack of qualified position applicants, burnout and more, financial management, budgeting and strategic planning including outreach, up to date resources for laboratory coding, reimbursement and compliance reflecting current requirements, standards and challenges, benchmarking methods to define and measure success, the importance of test utilization and clinical relevance, future trends in pathology and laboratory science including developments in test systems, human resources and workforce development and future directions in laboratory instrumentation and information technology. An entirely new section devoted to pandemic planning, collaboration and response lessons learned from COVID 19 and a look towards the future of laboratory preparedness. This indispensable edition of Clinical Laboratory Management not only meets the needs of today's clinical laboratories but anticipates the future making it a must have resource for laboratory professionals, managers and students. Get your copy today and equip yourself with the tools, strategies and insights to excel in the complex and ever changing world of the clinical laboratory.

The Publishers' Trade List Annual, 1985

*Practical*

*Environmental Bioremediation* R. Barry King, John K. Sheldon, Gilbert M. Long, 1997-12-29 Bioremediation or enhanced microbiological treatment of environments contaminated with a variety of organic and inorganic compounds is one of the most effective innovative technologies to come around this century. Practical Environmental Bioremediation The Field Guide presents updated material case histories and many instructive illustrations to reflect the evolving image of this fast emerging industry. Bioremediation technology has witnessed great strides towards simplifying treatability formats finding new approaches to field application more potent nutrient formulations monitoring protocols and the resulting general improvement in results. This new guide condenses all current available knowledge and presents necessary technical aspects and concepts in language that can be readily comprehended by the technical student experienced scientist or engineer the aspiring newcomer or anyone else interested in this exciting natural cleanup technique.

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**Accreditation Programs Directory** Michael A. Paré, 1996 Providing detailed profiles on certification and accreditation programmes in the US this book includes information on certification and accreditation programmes that denote skill level professionalism accomplishment and excellence.

**Subject Guide to Books in Print**, 1996 **Solar Energy Update**

, 1982 **Biology/science Materials** Carolina Biological Supply Company, 1991 **Forthcoming Books** Rose Arny, 2001

**Medical and Health Care Books and Serials in Print**, 1997 'American Book Publishing Record' Cumulative R. R. Bowker LLC, 1978 Manual of Clinical Microbiology Patrick R. Murray, Ellen Jo Baron, 2003 Includes information on infection detection and prevention and control diagnostic technologies bacteriology antibacterial antiviral antifungal and antiparasitic agents and susceptibility test methods virology mycology and parasitology.

**El-Hi Textbooks in Print**, 1982

Microbiology Jacquelyn G. Black, 1996 **Subject Guide to Forthcoming Books**, 1983 Presents by subject the same titles that are listed by author and title in Forthcoming books.

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The 2004 Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education Staff, 2004-10-27

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