

# Unknown Microbiology Lab Report

**Materials and Methods** A mixed culture of two unknown bacteria was provided by the instructor. The methods used for identification of the two unknown bacteria were in the laboratory manual by Dry. Floyd and Dry. Kennedy (1) unless otherwise noted. The first step that was used was a three streak method, described in Lab 4, on a Blood Heart Infused/Triplicate Soy Agar plate to isolate the two unknown bacteria. Once the two bacteria were incubated, grown, and isolated they were each individually streaked on a Triplicate Soy Agar plate to isolate individual colonies to be studied, tested and identified.

After incubation of the individual TTS plates, the morphologies were viewed and noted and a Gram stain was completed on each individual bacterium, which will be referred to as Bacteria #1 and Bacteria #2. After the Gram reaction was determined on Bacteria #1 and Bacteria #2, different biochemical tests were done according to the dichotomous keys provided in the lab manual. All the tests were performed by the methods outlined in the lab manual by Dry. Floyd and Dry. Kennedy (1). Table 1 and Table 2 list the tests performed, purpose, and results.

Also Flow Chart 1 and Flow Chart 2 will show the results. **Results** The Unknown Bacteria 36/ Bacteria #1 on a TTS plate was examined by the naked eye and under a dissecting microscope. Bacteria # 1 was approximately 2 - mm in diameter. They were circular in form with an entire margin and convex elevation. The colonies were smooth, translucent, and had a white brownish color. The Gram stain resulted in Gram positive Cisco. After the Gram stain was completed, the bacteria were streaked on a Imitation-Salt Agar plate and a Catalane test was performed. After these test were completed a Phenol Red

Dextrose Fermentation tube was inoculated, and a SIMI Tube inoculated. The Unknown Bacteria 36/Bacteria # 2 on a TTS plate was examined by the naked eye and under a dissecting microscope. Bacteria # 2 was approximately 3 - 4 mm in diameter. They were circular in form with an entire margin and a flat elevation. The colonies were rough (granular), translucent, and white brownish color with black granules. The Gram stain resulted in a Gram negative rod. After the Gram stain was completed, the bacteria were streaked on an Eosin -Methyl Blue Agar plate and an Underwrote II was inoculated.

See Table 1 and Flow Chart 1 for results of Bacteria # 1 and Table 2 and Flow Chart 2 for results of Bacteria # 2. Table 1: Biochemical Test Results (Bacteria # TEST | PURPOSE | REAGENTS OBSERVATIONS RESULTS | Gram Stain | To determine the Gram reaction of Bacteria #1 | Crystal violet, Iodine, Alcohol, Seafaring | Purple Cisco | Gram positive Cisco | MASS Agar plate | To determine Gram positive Staphylococcus species | None | Yellow halo around streak | Staphylococcus erasures | Catalane Test | To verify bacte

# Microbiology Unknown Lab Report Template

**Hilary Humphreys, William L. Irving**



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**Alcamo's Laboratory Fundamentals of Microbiology** Jeffrey C. Pommerville, 2010 This Popular Lab Manual Offers Thirty Four Multi Part Lab Exercises Designed To Provide Students With Basic Training In The Handling Of Microorganisms While Exploring Microbial Properties And Uses This Lab Manual Can Also Be Used Independently Of The Main Text An Instructor S Manual Downloadable From The Web Accompanies The Lab Manual And Provides Principles Of Lab Safety Research Topic Ideas Information On Customizing Laboratory Programs With The Manual Helpful Suggestions For Setting Up And Running Each Exercise And Lists Of Laboratory Media Cultures And Special Materials Used In Each Exercise

**Laboratory Experiments in Microbiology** Ted R. Johnson, Christine L. Case, 2004 Newly revised to accompany Microbiology An Introduction Eighth Edition by Tortora Funke and Case this lab manual includes 57 experiments that demonstrate the broad spectrum of microbiology Intended as a manual of basic microbiological techniques this popular lab manual features applications for undergraduate students in diverse areas including the biological sciences the allied health sciences agriculture environmental science nutrition pharmacy and various pre professional programs Experiments have been refined in this new edition to encourage students to develop critical thinking skills as well as learn basic facts and technical skills Material with direct application to clinical and commercial labs is included wherever possible and increased emphasis is placed on lab safety

**Principles of Public Health Microbiology** Robert S. Burlage, 2012 Essentials of Public Health Microbiology is a practical applied textbook that examines how infectious disease is transmitted through a population how it is monitored and how preventative measures are designed Major topics include the purification of water the treatment of wastewater food microbiology sexually transmitted diseases and the methods used to survey populations A variety of learning tools including historical perspectives case studies government internet databases and explanatory figures help the student to understand the critical concepts of microbiology as they are applied to improve health and prevent disease across populations Designed for students who have had a first course in general microbiology this one of a kind textbook is ideal for upper level undergraduates and graduates in public health and environmental health as well as environmental engineering hydrology and civil engineering The text is accompanied by a complete package of instructor resources including Instructor s Manual TestBank and PowerPoint slides available at <http://go.jblearning.com/burlage>

**Soft Computing for Biomedical Applications and Related Topics** Vladik Kreinovich, Nguyen Hoang Phuong, 2020-06-29 This book presents innovative intelligent techniques with an emphasis on their biomedical applications Although many medical doctors are willing to share their knowledge e g by incorporating it in computer based advisory systems that can benefit other doctors this knowledge is often expressed using imprecise fuzzy words from natural language such as small which are difficult for computers to process Accordingly we need fuzzy techniques to handle such words It is also desirable to extract general recommendations from the records of medical doctors decisions by using machine learning techniques such as neural networks The book

describes state of the art fuzzy neural and other techniques especially those that are now being used or potentially could be used in biomedical applications Accordingly it will benefit all researchers and students interested in the latest developments as well as practitioners who want to learn about new techniques      The SAGE Encyclopedia of Higher Education Miriam E. David, Marilyn J. Amey, 2020-05-21 Higher Education is in a state of ferment People are seriously discussing whether the medieval ideal of the university as being excellent in all areas makes sense today given the number of universities that we have in the world Student fees are changing the orientation of students to the system The high rate of non repayment of fees in the UK is provoking difficult questions about whether the current system of funding makes sense There are disputes about the ratio of research to teaching and further discussions about the international delivery of courses      **Laboratory Manual in General Microbiology** Michigan State University. Dept. of Bacteriology and Public Health, 1926      **Lab Experiments Microbiology Brf** Gerard J. Tortora, Christine L. Case, Ted R. Johnson, 1986      North Carolina Reports North Carolina. Supreme Court, 1990 Cases argued and determined in the Supreme Court of North Carolina      **Report of activities** Geological Survey of Canada, 1975      *Microbiology and Pathology* Alice Lorraine Smith, 1968      Problem-orientated Clinical Microbiology and Infection Hilary Humphreys, William L. Irving, 1996 This book covers all that medical students need to know in the clinical aspects of microbiology and infection presented as a series of 42 case histories Each case history covers epidemiology pathogenesis laboratory diagnosis clinical diagnosis and management      **Archives of Pathology & Laboratory Medicine** , 1996      *The Advisor, Teacher-course Evaluation, 1970-71* University of Illinois at Urbana-Champaign. Student Senate, 1970      Selected Water Resources Abstracts , 1987-12      **Technical Bulletin** American Society of Clinical Pathologists. Registry of Medical Technologists, 1969      **Principles & Procedures for Investigating Suspected Outbreaks of Foodborne and Waterborne Illness** Illinois. Department of Public Health, 1991      **Communicable Disease Center** United States. Communicable disease center. Atlanta, Ga, 1953      *Safety in the Chemical Laboratory* Norman V. Steere, 1967      **Handbook of Courses for Fourth Year Medical Students** David Geffen School of Medicine, 2009      *Soap and Sanitary Chemicals* , 1942 Accompanied by annual buyers guide called Soap and sanitary chemicals blue book and catalog edition

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