

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

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Microbiology: Laboratory Theory and Application Michael J. Leboffe, Burton E. Pierce, 2015-01-01 Designed for major and non major students taking an introductory level microbiology lab course Whether your course caters to pre health professional students microbiology majors or pre med students everything they need for a thorough introduction to the subject of microbiology is right here *Insights in Extreme Microbiology: 2021* Andreas Teske, Virginia P.

Edgcomb, 2023-02-03 **Microbiology: Laboratory Theory and Application, Essentials, 2nd Edition** Lourdes Norman-McKay, Michael J Leboffe, Burton E Pierce, 2022-01-14 This newest addition to the best selling Microbiology Laboratory Theory Application series of manuals provides an excellent value for courses where lab time is at a premium or for smaller enrollment courses where customization is not an option The Essentials edition is intended for courses populated by nonmajors and allied health students and includes exercises selected to reflect core microbiology laboratory concepts

Current Research Topics in Applied Microbiology and Microbial Biotechnology Antonio Mendez-Vilas, 2009 This book contains a compilation of papers presented at the II International Conference on Environmental Industrial and Applied Microbiology BioMicroWorld2007 held in Seville Spain on 28 November OCo 1 December 2007 where over 550 researchers from about 60 countries attended and presented their cutting edge research The main goals of this book are to 1 identify new approaches and research opportunities in applied microbiology presenting works that link microbiology with research areas usually related to other scientific and engineering disciplines and 2 communicate current research priorities and progress in the field The contents of this book mirror this focus Microbiologists interested in environmental industrial and applied microbiology and in general scientists whose research fields are related to applied microbiology can find an overview of the current state of the art in the topic In addition to the more general topic some chapters are devoted to specific branches of microbiology research such as bioremediation biosurfactants microbial factories biotechnologically relevant enzymes and proteins microbial physiology metabolism and gene expression and future bioindustries *Manual of Molecular Microbiology* Randall T. Hayden, Karen C. Carroll, John P. Dekker, Alexander J. McAdam, Donna M. Wolk, 2025-07-02 Your essential guide to design operation management and health care integration of the modern molecular microbiology laboratory This comprehensive resource offers definitive guidance on the operational and interpretive aspects of clinical molecular microbiology Tailored for medical laboratory professionals it provides practical how to guidance for establishing maintaining and advancing molecular microbiology testing services and details the unique expertise required to support infectious disease diagnostics The Manual offers a clear and practical roadmap for topics ranging from selecting appropriate technologies instruments and analytic pipelines to navigating complex interpretive challenges and positioning diagnostic testing services for future clinical and population health needs Beginning with foundational technologies and their clinical applications this book offers accessible overviews of each method s potential implications and emerging roles Subsequent

sections dive meticulously into details of laboratory setup design and operations empowering readers with hands on insights for routine and advanced testing methods including advanced sequencing technologies It also tackles the nuanced challenges of interpreting and reporting results from cutting edge diagnostics including those focused on antimicrobial resistance and metagenomics The final section explores the broader impact of molecular microbiology on value based care with discussions on clinical management laboratory stewardship and the future of molecular diagnostics in public health Comprehensive and forward looking the Manual of Molecular Microbiology equips readers with both foundational knowledge and practical expertise making it an indispensable reference for today s clinical laboratory professionals

Microbiological Identification using MALDI-TOF and Tandem Mass Spectrometry Haroun N. Shah, Saheer E. Gharbia, Ajit J. Shah, Erika Y. Tranfield, K. Clive Thompson, 2023-04-03 Microbiological Identification using MALDI TOF and Tandem Mass Spectrometry Detailed resource presenting the capabilities of MALDI mass spectrometry MS to industrially and environmentally significant areas in the biosciences Microbiological Identification using MALDI TOF and Tandem Mass Spectrometry fulfills a need to bring the key analytical technique of MALDI mass spectrometric analysis into routine practice by specialists and non specialists and technicians It informs and educates established researchers on the development of techniques as applied to industrially significant areas within the biosciences Throughout the text the reader is presented with recognized and emerging techniques of this powerful and continually advancing field of analytical science to key areas of importance While many scientific papers are reporting new applications of MS based analysis in specific foci this book is unique in that it draws together an incredibly diverse range of applications that are pushing the boundaries of MS across the broad field of biosciences Contributed to by recognized experts in the field of MALDI MS who have been key players in promoting the advancement and dissemination of authoritative information in this field Microbiological Identification using MALDI TOF and Tandem Mass Spectrometry covers sample topics such as Oil microbiology marine and freshwater ecosystems agricultural and food microbiology and industrial waste microbiology Bioremediation and landfill sites microbiology microbiology of inhospitable sites e g Arctic and Antarctic and alkaline and acidic sites and hot temperatures Veterinary poultry and animals viral applications of MS and antibiotic resistance using tandem MS methods Recent developments which are set to transform the use of MS from its success in clinical microbiology to a wide range of commercial and environmental uses Bridging the gap between measurement and key applications this text is an ideal resource for industrial and environmental analytical scientists including technologists in the food industry pharmaceuticals and agriculture as well as biomedical scientists researchers clinicians and academics and scientists in bio resource centers

Pharmaceutical Microbiology Tim Sandle, 2015-10-09 Pharmaceutical Microbiology Essentials for Quality Assurance and Quality Control presents that latest information on protecting pharmaceutical and healthcare products from spoilage by microorganisms and protecting patients and consumers With both sterile and non sterile products the effects can range from discoloration to the potential for fatality

The book provides an overview of the function of the pharmaceutical microbiologist and what they need to know from regulatory filing and GMP to laboratory design and management and compendia tests and risk assessment tools and techniques. These key aspects are discussed through a series of dedicated chapters with topics covering auditing validation data analysis bioburden toxins microbial identification culture media and contamination control. Contains the applications of pharmaceutical microbiology in sterile and non sterile products. Presents the practical aspects of pharmaceutical microbiology testing. Provides contamination control risks and remediation strategies along with rapid microbiological methods. Includes bioburden endotoxin and specific microbial risks. Highlights relevant case studies and risk assessment scenarios.

Bureau Reports New Jersey. Dept. of Agriculture, 1949 **Bioinformatics in Microbiota** Xing Chen, Hongsheng Liu, Qi Zhao, 2020-06-22 **Microbiomics**, 2020-02-21

Microbiomics Dimensions Applications and Translational Implications of Human and Environmental Microbiome Research describes a new holistic approach to microbiomics. International experts provide in depth discussion of current research methods for studying human environmental viral and fungal microbiomes as well as the implications of new discoveries for human health nutrition disease cancer research probiotics and in the food and agricultural industries. Distinct chapters covering culturomics and sub microbiomes such as the virome and mycetobiome provide an integrative framework for the expansion of microbiomics into new areas of application as well as crosspollination between research areas. Detailed case studies include the use of microbiomics to develop natural products with antimicrobial properties microbiomic enhancements in food and beverage technology microbes for bioprotection and biopreservation microbial tools to reduce antibiotic resistance and maintenance and cultivation of human microbial communities. Provides an integrated approach for realizing the potential of microbiomics across the life environmental food and agricultural sciences. Includes thorough analysis of human environmental viral and mycetol microbiomes as well as methods and technology for identifying microbiotes. Features chapter contributions from international leaders in microbiomic methods technology and applications.

Encyclopedia of Food Microbiology Carl A. Batt, 2014-04-02. Written by the world's leading scientists and spanning over 400 articles in three volumes the Encyclopedia of Food Microbiology Second Edition is a complete highly structured guide to current knowledge in the field. Fully revised and updated this encyclopedia reflects the key advances in the field since the first edition was published in 1999. The articles in this key work heavily illustrated and fully revised since the first edition in 1999 highlight advances in areas such as genomics and food safety to bring users up to date on microorganisms in foods. Topics such as DNA sequencing and E coli are particularly well covered. With lists of further reading to help users explore topics in depth this resource will enrich scientists at every level in academia and industry providing fundamental information as well as explaining state of the art scientific discoveries. This book is designed to allow disparate approaches from farmers to processors to food handlers and consumers and interests to access accurate and objective information about the microbiology of foods. Microbiology impacts the safe

presentation of food From harvest and storage to determination of shelf life to presentation and consumption This work highlights the risks of microbial contamination and is an invaluable go to guide for anyone working in Food Health and Safety Has a two fold industry appeal 1 those developing new functional food products and 2 to all corporations concerned about the potential hazards of microbes in their food products Environmental Microbiology John F. T. Spencer, Alicia L. Ragout de Spencer, 2008-02-05 The methods included in Environmental Microbiology Methods and Pro cols can be placed in the categories Communities and Biofilms Fermented Milks Recovery and Determination of Nucleic Acids and the review s tion containing chapters on the endophytic bacterium *Bacillus mojavensis* the engineering of bacteria to enhance their ability to carry out bioremediation of aromatic compounds using the hemoglobin gene from a strain of *Vitreoscilla* 23 spp and the use of chemical shift reagents and Na NMR to study sodium gradients in microorganisms all of which should be of interest to investigators in these fields The subjects treated within the different categories also cover a wide range with methods ranging from those for the study of marine organisms through those for the investigation of microorganisms occurring in ground waters including subsurface ground waters to other types of environmental waters to as varied subjects as the biodiversity of yeasts found in northwest Argentina The range of topics described in the Fermented Milks section is smaller but significant for investigators in areas concerned with milk as an item of foods for infants small children and even adults

Manual of Clinical Microbiology, 4 Volume Set Karen C. Carroll, Michael A. Pfaller, 2024-11-19 Revised by a collaborative international interdisciplinary team of editors and authors this edition of the Manual of Clinical Microbiology includes the latest applications of genomics and proteomics and is filled with current findings regarding infectious agents leading edge diagnostic methods laboratory practices and safety guidelines This edition also features four new chapters Diagnostic Stewardship in Clinical Microbiology *Salmonella* *Escherichia* and *Shigella* and *Morganellaceae* *Erwiniaceae* *Hafniaceae* and Selected *Enterobacterales* This seminal reference of microbiology continues to set the standard for state of the science laboratory practice as the most authoritative reference in the field of microbiology If you are looking for online access to the latest from this reference or site access for your lab please visit www.wiley.com/learn/clinmicronow *Molecular Medical Microbiology* Yi-Wei Tang, Musa Hindiyeh, Dongyou Liu, Andrew Sails, Paul Spearman, Jing-Ren Zhang, 2023-11-21 Molecular Medical Microbiology Third Edition presents the latest release in what is considered to be the first book to synthesize new developments in both molecular and clinical research The molecular age has brought about dramatic changes in medical microbiology along with great leaps in our understanding of the mechanisms of infectious disease This third edition is completely updated reviewed and expanded providing a timely and helpful update for microbiologists students and clinicians in the era of increasing use of molecular techniques changing epidemiology and prevalence and increasing resistance of many pathogenic bacteria Written by experts in the field chapters include cutting edge information and clinical overviews for each major bacterial group along with the latest updates on vaccine development molecular technology and diagnostic

technology Completely updated and revised edition of this comprehensive and accessible reference on molecular medical microbiology Includes full color presentations throughout Delves into in depth discussions on individual pathogenic bacteria in a system oriented approach Includes a clinical overview for each major bacterial group Presents the latest information on vaccine development molecular technology and diagnostic technology Provides more than 100 chapters on all major groups of bacteria *Insights in Extreme Microbiology: 2022* Andreas Teske, Virginia P. Edgcomb, 2023-11-16 **Clinical Microbiology Procedures Handbook, Multi-Volume** Amy L. Leber, Carey-Ann D. Burnham, 2024-11-13 Gold Standard consensus based procedures from the experts The Clinical Microbiology Procedures Handbook 5th edition provides those engaged in microbial analysis of clinical specimens with procedures for the detection identification and characterization of microorganisms involved in human infections This unique and valuable collection of step by step descriptions of the numerous testing modalities used in the clinical microbiology laboratory was written and edited by highly knowledgeable laboratorians The 5th edition features two new sections one on blood cultures and one on MALDI TOF MS and the sections on molecular diagnostics virology and serology were extensively revised and updated Presented over multiple volumes this handbook enables laboratory staff to perform all analyses including appropriate quality control recommendations from the receipt of the specimen through processing testing interpretation presentation of the final report and subsequent consultation If you are looking for online access to the latest from this reference or site access for your lab please visit www.wiley.com/learn/clinmicronow *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 **Microbiology of Fruits and Vegetables** Gerald M. Sapers, James R. Gorny, Ahmed E. Yousef, 2005-08-29 Microbiology of Fruits and Vegetables presents a holistic view of the problem of produce contamination that examines both pre harvest and post harvest sources and practices It addresses a number of topical issues relating to the microbiological quality and safety of fresh and processed fruits and vegetables and explores the linkage between microbial attachment the state of microbial contaminants on produce surfaces and the problem of decontamination This volume focuses on five distinct areas and within these areas provides in depth coverage of scientific issues important to an understanding of the field and technical issues of economic and public health significance [Koneman's Color Atlas and Textbook of Diagnostic Microbiology](#) Elmer W. Koneman, 2006 Long considered the definitive work in its field this new edition presents all the principles and practices readers need for a solid grounding in all aspects of clinical microbiology bacteriology mycology

parasitology and virology Tests are presented according to the Clinical and Laboratory Standards Institute formerly NCCLS format This extensively revised edition includes practical guidelines for cost effective clinically relevant evaluation of clinical specimens including extent of workup and abbreviated identification schemes New chapters cover the increasingly important areas of immunologic and molecular diagnosis Clinical correlations link microorganisms to specific disease states Over 600 color plates depict salient identification features of organisms **Canadian Journal of Microbiology** ,2009

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