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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 loonies 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 blochemical 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 limitation-Salt Agar plate and a Catalane test was performed. After these test were completed a Phenoi 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

Sample Micro Unknown Microbe Report

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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 **Bureau Reports** New Jersey. Dept. of Agriculture,1949 Bioinformatics in Microbiota Xing scenarios Chen, Hongsheng Liu, Oi 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 viriome 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

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