

Identifying Unknown Bacteria – Class Set

Bacteria and other microbes are considerably difficult to identify. Bacteria are extremely small and show only a few variations in appearance. Testing for chemical characteristics is often needed to distinguish between bacteria that are similar in appearance. The table below gives characteristics for a variety of bacteria that often need to be identified in medical laboratories.

Familiarize yourself with the table. A plus sign in the table indicates that an organism does have the listed characteristic. A minus sign in the table indicates that the bacterium does not have the characteristic. A blank means that the information is not available. Use the information in the table to identify the unknown organisms.

Organism	Shape and/or Form	Type of Cell Wall	Capsule	Flagella	Endospores	Aerobic	Causes Lysis of Red Blood Cells	Grows well at 20°C	Sugars Fermented		
									Glucose	Maltose	Lactose
<i>Bacillus anthracis</i>	Bacillus	A	+	-	+	+	-	-	+	+	+
<i>Bacillus subtilis</i>	Bacillus	A	-	-	+	+	-	+	+	+	-
<i>Clostridium botulinum</i>	Bacillus	A	-	+	+	-	+	-	+		-
<i>Clostridium tetani</i>	Bacillus	A	-	+	+	-	+	-	-		-
<i>Diplococcus pneumoniae</i>	Diplococcus	A	+	-	-	+	+	-			
<i>Escherichia coli</i>	Bacillus	B	-	-	-	+	-	-	+	+	+
<i>Klebsiella pneumoniae</i>	Bacillus	B	+	-	-	+	-	-	+	+	+
<i>Neisseria catarrhalis</i>	Diplococcus	B	-	-	-	+	-	+	+	+	-
<i>Neisseria gonorrhoeae</i>	Diplococcus	B	-	-	-	+	-	-	+	-	-
<i>Neisseria meningitidis</i>	Diplococcus	B	-	-	-	+	-	-	-	-	-
<i>Pseudomonas aeruginosa</i>	Bacillus	B	-	+	-	+	-	+	-	-	-
<i>Salmonella typhi</i>	Bacillus	B	-	+	-	+		-	+	+	-
<i>Serratiamarcescens</i>	Bacillus	B	-	+	-	+		+	+	+	-
<i>Staphylococcus aureus</i>	Staphylococcus	A	-	-	-	+	+	-	+		
<i>Staphylococcus epidermidis</i>	Staphylococcus	A	-	-	-	+	-	-	+		
<i>Streptococcus fecalis</i>	Streptococcus	A	-	-	-	+	-	-	+		
<i>Streptococcus hemolyticus</i>	Streptococcus	A	-	-	-	+	+	-	+		

→ Identify the unknowns:

Unknown A is examined under a microscope and observed to be a diplococcus. A test is done that shows that the diplococcus has cell wall type B and has no capsule. Samples of unknown A are placed in incubators at 20°C and 37°C. The sample at 37°C grows well, but the one at 20°C does not. The unknown organism is tested for the ability to ferment the sugars glucose, maltose, and lactose. It can only ferment glucose.

Unknown B is a bacillus with cell wall type A. It is anaerobic (able to respire without oxygen) and causes lysis (bursting) of red blood cells. This organism is tested for the ability to ferment the sugars glucose and lactose. It cannot ferment either of these sugars.

Unknown C is a bacillus that produces endospores during harsh times. This organism was tested for its ability to ferment glucose, maltose and lactose. It can ferment all three sugars.

Manual Unknown Microbiology

American Society for Microbiology

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the American Society for Microbiology text.

Manual Unknown Microbiology:

Laboratory Manual in General Microbiology Ward Giltner, 1916 *Laboratory Manual in General Microbiology* Michigan State University. Department of Bacteriology and Public Health, 1916 **Laboratory Manual in General Microbiology**, 1926 *Laboratory manual in general microbiology* Michigan State University. Dept. of Bacteriology and Public Health, 1921 *Manual of Veterinary Microbiology* Gustave Mosselman, E. Li'enaux, 1895 Bergey's Manual of Determinative Bacteriology John G. Holt, 1994 Covers the nature of bacterial identification schemes the differentiation of procaryotic from eucaryotic microorganisms and major categories and groups of bacteria **MEDINFO 2019: Health and Wellbeing e-Networks for All** L. Ohno-Machado, B. Séroussi, 2019-11-12 Combining and integrating cross institutional data remains a challenge for both researchers and those involved in patient care Patient generated data can contribute precious information to healthcare professionals by enabling monitoring under normal life conditions and also helping patients play a more active role in their own care This book presents the proceedings of MEDINFO 2019 the 17th World Congress on Medical and Health Informatics held in Lyon France from 25 to 30 August 2019 The theme of this year s conference was Health and Wellbeing E Networks for All stressing the increasing importance of networks in healthcare on the one hand and the patient centered perspective on the other Over 1100 manuscripts were submitted to the conference and after a thorough review process by at least three reviewers and assessment by a scientific program committee member 285 papers and 296 posters were accepted together with 47 podium abstracts 7 demonstrations 45 panels 21 workshops and 9 tutorials All accepted paper and poster contributions are included in these proceedings The papers are grouped under four thematic tracks interpreting health and biomedical data supporting care delivery enabling precision medicine and public health and the human element in medical informatics The posters are divided into the same four groups The book presents an overview of state of the art informatics projects from multiple regions of the world it will be of interest to anyone working in the field of medical informatics **Bergey's Manual of Determinative Bacteriology** American Society for Microbiology, 1925

Clinical Virology Manual Richard L. Hodinka, Stephen A. Young, Benjamin A. Pinsky, 2020-07-10 The definitive clinical virology resource for physicians and clinical laboratory virologists The clinical virology field is rapidly evolving and as a result physicians and clinical laboratory virologists must have a reliable reference tool to aid in their ability to identify and diagnose viral infections to prevent future outbreaks In this completely revised edition of the Clinical Virology Manual Editor in Chief Michael Loeffelholz along with Section Editors Richard Hodinka Benjamin Pinsky and Stephen Young have compiled expert perspectives of a renowned team of clinical virology experts and divided these contributions into three sections to provide the latest information on the diagnosis of viral infections including ebola HIV and Human papillomavirus state of the art diagnostic technologies including next generation sequencing and nucleic acid amplification methods taxonomy of clinically important viruses such as polyomaviruses and zoonotic viruses This comprehensive reference also includes three

appendices with vital information on reference virology laboratories at the Centers for Disease Control and Prevention state and local public health laboratories and international reference laboratories and laboratory systems Additionally a new section Diagnostic Best Practices which summarizes recommendations for diagnostic testing and cites evidence based guidelines is included in each viral pathogens chapter Clinical Virology Manual Fifth Edition serves as a reference source to healthcare professionals and laboratorians in providing clinical and technical information regarding viral diseases and the diagnosis of viral infections Microbiology Benjamin Franklin Lutman,1929 **Handbook of Bioanalytics** Bogusław Buszewski,Irena Baranowska,2022-06-30 This book presents an authoritative review of analytical methods used for diagnostics medical therapy and for forensic purposes Divided into 4 parts the book discusses new challenges in bioanalytics covers bioanalysis as a source of clinical pharmaceutical and forensic information explores natural resources as a source of biologically active compounds and offers new analytical strategies and equipment solutions Written by interdisciplinary expert academics this work will appeal to a wide readership of students researchers and professionals interested in the fields of medicine chemistry pharmaceutical life and health sciences engineering and environmental protection Clinicians and employees of forensic laboratories will also find this work instructive and informative **Manual for the Certification of Laboratories Analyzing Drinking Water** ,1997 Outline of an Elementary Course in Microbiology Jean Broadhurst,1918

Aerosols Handbook Lev S. Ruzer,Naomi H. Harley,2012-08-15 With the rapid growth of the nanotechnology industry the need to understand the biological effects of aerosol exposure has become increasingly important Featuring contributions by leading experts in the field Aerosols Handbook Measurement Dosimetry and Health Effects Second Edition offers an up to date overview of many aspects of aerosols from properties to health effects and epidemiology Covering indoor outdoor industrial medical pharmaceutical and radioactive aerosols this book explores aerosol dosimetry by defining terms such as exposure and dose In addition it looks at nanometer particles the mechanism of aerosol deposition in the lungs and modeling deposition with a corresponding uncertainty in risk assessment The text also emphasizes the importance of accurate aerosol measurements particularly breathing zone exposure assessments Examining radioactive aerosols the book discusses lessons learned from nuclear accidents radon and thoron and long lived radionuclides in the environment It brings together research on both radioactive and nonradioactive aerosols supplying readers with a more complete view of how aerosols behave in the lungs New in This Edition Five new chapters that address the safety of nanomaterials dealing with nanoparticle cell penetration high aspect ratio nanomaterials nanoaerosols in drug delivery risk assessment and health effects New chapters on atmospheric pollution related to climate change chemical analyses of particle filter deposits and classical nucleation theory New data on measurement dosimetry and health effects Updated throughout this second edition continues to be an essential resource for those who study exposure dosages and toxicity to develop treatments for exposure reduce air pollution and establish better safety regulations particularly in industries using nanotechnologies **Australian National**

Bibliography ,1978 Manual of Molecular and Clinical Laboratory Immunology John L. Schmitz,Barbara Detrick,Maurice R. O'Gorman,2024-12-24 THE authoritative guide for clinical laboratory immunology For nearly 50 years the Manual of Molecular and Clinical Laboratory Immunology has been the premier resource for laboratories students and professionals involved in the clinical and technical details of diagnostic immunology testing The 9th Edition continues its tradition of providing comprehensive clinical and technical information on the latest technologies used in medical and diagnostic immunology Led by a world renowned group of authors and editors this new edition reflects substantial changes aimed at improving and updating the Manual s utility while reflecting the significant transformations that have occurred since the last edition including the revolution of gene editing and the widespread adoption of molecularly engineered cellular therapies Topical highlights include Laboratory Management three new chapters cover essential aspects of quality assurance quality improvement and quality management aligning with the increasingly stringent and demanding regulatory environment Inborn Errors of Immunity the primary immunodeficiency section has been completely updated to align with the latest International Union of Immunological Societies classifications of inborn errors of immunity Functional Cellular Assays expanded content includes detailed discussions on various functional assays critical for modern immunologic testing Autoimmune Diseases expanded chapters on systemic and organ specific autoimmune disorders including new chapters on Sjgren s syndrome and deficiency of ADA2 as well as significant updates on organ specific autoimmune diseases Transplantation Immunology updated chapters detail the assessment of immune reconstitution and ABO testing reflecting latest practices The 9th Edition of the Manual of Molecular and Clinical Laboratory Immunology serves as an invaluable resource for laboratory directors clinicians laboratory managers technologists and students It provides critical insights into the selection application and interpretation of immunologic tests offering practical guidance on troubleshooting clinical application and an understanding of test limitations This comprehensive and up to date manual remains an essential tool for anyone involved in the diagnosis evaluation and management of immune mediated and immune system related disorders

Tropical Tree Seed Manual ,2002 An Elementary Text Book of General Microbiology Ward Giltner,1928

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