

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

**Richard L. Hodinka, Stephen A.
Young, Benjamin A. Pinsky**



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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

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