

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

Gustave Mosselman, E. Li'enaux



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