Cheatography

Anaerobes Cheat Sheet by Morghay123 via cheatography.com/53154/cs/20242/

Oxygen Usage Defin	itions
Obligate Aerobe	Needs O2 -Pseudomonas, Micrococcus, Bacillus
Facultative	Grows with or without O2 -Staph, Strep, Enterobacteriaceae
Microaerophilic	Only requires a small amount of O2 -Borrelia
Obligate Anaerobe	Can't survive in O2 - <i>C. diff</i>

Anaerobic Basics

Basic Reservoirs
-Abscesses
-Body Fluid

-Mouth

-Deep Wound

-Intestine

-UTI

Examples of Infections/Diseases caused by Anaerobes
-Dental Infection

-C.diff

-Deep wound

-Gangrene

-Necrotic Tissue

-Botulism

Aerotolerance Testing

1. CDC BA colony plate with growth

2. Sub to regular BA and another CDC BA plate

3. See if they areIf they grow on the regular BA and the CDC BAanaerobesthen they are not anaerobes

Anaerobic Basics

Basic Reservoirs
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Examples of Infections/Diseases caused by Anaerobes
-Dental Infection
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-Deep wound -Gangrene -Necrotic Tissue

Specimens (cont)					
LKV agar	Laked blood and antibiotic. Has Vanco and Kanamycin, ONLY selective				
<i>Bacteroides</i> Bile Esculin Agar	Special for <i>Bacteroides fragilis</i> . Selective and differential (20% bile tolerance)				
Thioglycollate Broth	Broth media to grow bacteria. Can only grow medically significant organisms. Oxygen suppressed				
Cooked Meat Glucose Broth	looks like has chunks of beef in it. Has glucose. Does same thing as thioglycollate broth				
Incubation Environment					
Gas Pack Jar	85% N; 10% H; 5% CO2				

Anaerobic Chamber

Gram Negative Bacilli

	Fusobacterium necrophorum	Fusobacterium nucleatum
Bile Tolerance (20%	-	-
Brick Red Fluore- scence (UV)	-	-
Brown/black colonies on CDC	-	-
Vancomycin	R	R
Penicillin	R	R
Kanamycin	S	S
Lipase	+	-
Esculin	-	-

Gram Negative Bacilli

	Bacte- roides fragilis	Porphyro- monas gingiv- alis	Prevotella melaninog- enica
Bile Tolerance (20% Bile)	+	-	-
Brick Red Fluore- scence (UV light)	-	+	+
Brown/Black Colonies on CDC	-	+	+
Vancomycin	R	S	R
Penicillin	R	S	R

-Botulism

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CCFA	Used for C. Diff. Both se	ective and differential	
CDC Blood Agar	Blood Agar without O2		
Anaerobic Media	- All have no oxygen		
Inappropriate (rejected) specimens	Swab of anything, anyth normal flora, vaginal b/c	o 1 y	
Appropriate Specimens	Aspirates, body fluid, tiss ation, drainage, brain ab		

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Gram Negative Bacilli (cont	:)			Gram Positive C	cocci		
Kanamycin	R	R	R	Peptostreptococo	cus	Catalase Negative	
Lipase	-	-	-	Staphylococcus s	saccharolyticus	Catalase Variable	
Esculin	+	-	-	Gram Negative	Cocci		
Gram Positive Bacilli				Veillonella spp.		cultures from endocarc	
Catalase Positive							
Cutibacterium (former Propionibacterium)	- Moderate (- Diphtheroi						
Catalase Negative							
Actinomyces spp.	- Slow grow - Filamentou		g GPB				
Lactobacillus	- Rapid Gro chaining GF - Resistant t	В					
Clostridium spp.							
- Clostridium perfringens	 Lecithinase cloudy aro Double zou Lipase neg Boxcar sha Gangrene 	und colony ne beta hem jative	nolysis				
- Clostridium sporogenes	- Common in - Comes fro - Lipase Pos - Smells like	m stool sam sitive	ples				
- Clostridium difficile	 Should not Do toxin te Test of cur PCR can p can be false If pt has fir transmissab 	sting and P e ick up dead positive m stool, no	DNA so it				
- Clostridium septicum	- Gangrene - Spreading - Subtermina		ation				
- Clostridium tetani	- Cause of to - Club like - Tennis rac						
- Clostridium tertium	- Aerotolera - Can grow i						



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