Microbiology Study Guide

Microbial growth

PHYSICAL REQUIREMENTS FOR GROWTH

- · Growth of population: increase in the number of cells
- Requirements are both physical and chemical

PHYSICAL REQUIREMENTS:

- *psychrophiles: cold loving microbes
- *mesophiles: moderate temperature
- *thermophiles: heat loving
- Minimum growth temperature: the lowest temperature that a species will grow
 - Optimum: temperature it grows best
 - Maximum: highest temperature tolerated for growth
- Most bacteria grow at a pH value between 6.5-7.5
- Most microbes undergo plasmolysis (shrinking) in hypertonic solutions; halophiles (microorganisms that require salt to survive) can tolerate higher salt concentrations

CHEMICAL REQUIREMENTS:

- <u>Carbon</u>—all organisms require a carbon source
- · *chemoheterotrophs: use an organic molecule (pure carbon)
- *autotrophs: use carbon dioxide
- <u>Nitrogen</u>—needed for protein and nucleic acid synthesis. Obtained from decomposition of proteins, from NH4 or NO3.
- Oxygen—obligate aerobes (require oxygen); facultative anaerobes (will use oxygen if it is present but do not require it); anaerobes (do not use oxygen) for growth
- Other: sulfur, phosphorus, trace elements, organic growth factors

BIOFILMS

- Microbes adhere to surfaces and accumulate as biofilms on solid surfaces in contact with water
- Most bacteria live in biofilms
- Microbes in biofilms are more resistant to antibiotics than free-swimming microbes

Microbiology Chapter Study Questions

Gerard J. Criner, Gilbert E. D'Alonzo

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Unveiling the Power of Verbal Artistry: An Psychological Sojourn through Microbiology Chapter Study Questions

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