

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
- ***mésophiles**: 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:

- **Carbon**—all organisms require a carbon source
- ***chemoheterotrophs**: use an organic molecule (pure carbon)
- ***autotrophs**: use carbon dioxide
- **Nitrogen**—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 Study Guide And Practice Exam

**Patrick R. Murray, Ken S.
Rosenthal, Michael A. Pfaller**

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