

# Study Guide: Control of Microbial Growth

## Definitions

- Sterilization
- -static vs. -cidal

## Physical and Chemical Methods to Control Microbial Growth

- **Physical:** Radiation, Filtration, Heat and Osmotic Pressure
- **Chemical:**
  - 9 categories of chemicals used outside of body
    - Antiseptics vs. disinfectants
  - Antimicrobial drugs used inside/on the body
- **Modes of Action** (some act in multiple ways)
  - Disrupt cell walls
  - Disrupt cell membranes
  - Denature proteins
  - Affect protein and nucleic acid synthesis

**How choose best method?** Site, microbe(s), environmental conditions

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## UV Radiation (Physical)

- Causes Mutations (DNA)- thymine dimers
  - Too many mutations- not able to repair (irreparable)
- UV cannot penetrate below the surface = main limitation
  - Card stock can be used to cover part of each plate
  - Lid MUST be removed before UV treatment takes place
- Bacterial cultures: (Bs grown for 7 days, Bs grown for 1 day, Sa)
  - *B. subtilis*: Gram +, can form endospores
    - *B. subtilis* grown for 7 days and 1 day
  - *S. aureus*: Gram +, can't form endospores
- Different times of treatment
- **Predictions??**

# Microbial Growth Study Guide

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