

The Control of Microbial Growth

Chapter 9

- I. Terminology
 - A. Sterilization
 - B. Disinfection
 - a. disinfectant
 - C. Sanitization / Decontamination
 - D. Antisepsis / Degerming
 - a. antiseptic
 - E. -cide
 - F. -static or -stasis
 - G. Sepsis
 - H. Asepsis
- II. Rate of Death
 - A. Factors
- III. Methods of Physical Control
 - A. Heat
 - 1. moist heat
 - a. boiling
 - b. autoclave
 - c. pasteurization
 - a) Classic = LTLT
 - b) HTST
 - c) UHT
 - 2. dry heat
 - B. Filtration
 - C. Low Temp
 - D. Dessiccation
 - 1. lyophilization
 - E. Osmotic Pressure
 - F. Radiation
 - 1) thymine dimers
 - G. Types of Disinfectants
 - 1. phenol
 - a. phenolics
 - b. bisphenols
 - 2. halogens
 - a. iodine
 - 1) tincture
 - 2) iodophor
 - b. chlorine
 - 3. alcohols
 - 4. heavy metals
 - 5. surfactants
 - a. soaps and detergents
 - b. anionic detergents
 - c. cationic detergents - Quats
 - 6. organic acids
 - 7. antibiotics
 - 8. aldehydes
 - 9. gaseous sterilants
 - 10. plasmas
 - 11. oxidizing agents
 - a. peroxygens
 - 12. commercial sterilization