

CONTROL OF BACTERIA

- **STERILIZATION**
(Killing of all life forms)

PHYSICAL CONTROL

HEAT

- **Moist** (Indirect Heat) → Coagulation of Proteins → Denaturation
- **Dry** (Direct Heat) → Oxidation of Proteins → Denaturation
- **Pasteurization** (milk, milk products)

RADIATIONS

- 300 nm λ (\downarrow) → γ -radiations

MEMB. FILTERS

- For thermolabile molecules
- Anti-biotics, Hormones, Anti-bodies, Seras

DEHYDRATION

- **Dessication**
- Removal of H_2O (Aqueous Environment)
- Enzyme Activity $\downarrow\downarrow$

CHEMICAL CONTROL

ANTI-SEPTICS

- Use on living surface
- Tincture of Iodine

DISINFECTANTS

- Use on Non-living Surface / in-animate
- Spirit (methanol)

ANTI-BIOTICS

- Chemotherapeutic agents

- **Bacteriostatic**
Anti-biotics

- ↓
- Control metabolism of Bacteria
- Control Growth

- **Bacteriocidal**
Anti-biotics

- ↓
- Kill bacterias
- By rupturing cell membrane

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