

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 (↓) → γ -radiations

MEMB. FILTERS

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

DEHYDRATION

→ Dessication

- Removal of H_2O (Aqueous Environment)
- Enzyme Activity ↓↓

CHEMICAL CONTROL

ANTI-SEPTICS

- Use on living surface
- Tincture of Iodine

DISINFECTANTS

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

ANTI-BIOTICS

→ Chemotherapeutic agents

• **Bacteriostatic**
Anti-biotics



- Control metabolism of Bacteria
- Control Growth

• **Bacteriocidal**
Anti-biotics



- Kill bacterias
- By rupturing cell membrane

The course content and notes provided by Physics & Science are for educational and informational purposes only and protected by local copyright laws.

Unauthorised copying or distribution is strictly prohibited. By accessing and using these materials, you agree to use them solely for personal, non-commercial use and will not hold the copyright holder liable for any damages.

By accessing and using the materials, you also agree to abide by all local copyright laws.