

Unit-2

"THE CONCEPT/METHOD OF STERILISATION"

★ Anti-Microbial Agents

① Disinfectant →

A chemical that kills microorganisms and eliminate it is called disinfectant.

Example →

Hypochloritis, chlorine compound, copper sulphate, formaldehyde
<reacts with NH_2 , SH and COOH groups>, Phenolic compound <denature proteins and disrupt cell membrane> and mercuric chloride <inactivate proteins by reacting with sulphide groups>

② Antiseptic →

Antiseptics are chemical that kill or inhibit the growth of micro-organisms and are non-toxic enough to be used to living tissues

Example →

Alcohol <ethanol denature proteins and solubilise lipids>, silver nitrate <precipitate proteins>, Iodine solution <inactivate proteins> and detergents <cell disruption or disrupt cell membrane>

③ Sterilization →

Sterilisation refers to complete and total destruction or elimination of all viable organisms including all microbial endospores