

# EPIC Online Technology Meeting on Surface Disinfection and Antibacterial Surfaces (in cooperation with IUVA

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# Manufacturing of sterile pharmaceutical drugs



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MICROBIAL CELLS  
-100 TRILLIONS  
70-90%



HUMAN CELLS  
~30 TRILLION



Up to 3Kg

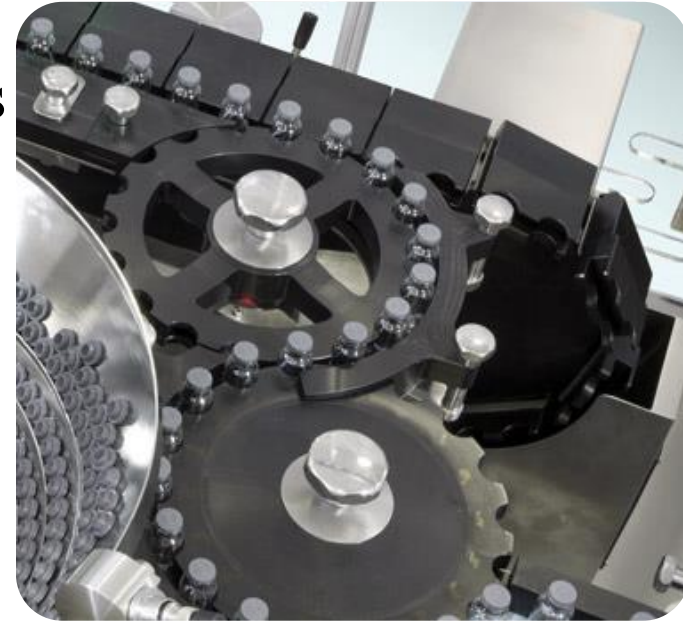
# Removal of microbes and particles

- Surfaces must be sterilised or **disinfected** by chemical or physical agents.
- Up to 400m<sup>2</sup> per day
- Different materials:
  - Stainless steel
  - Glass
  - Plastic polymers (PVC)
  - Silicone
  - Teflon



# Disinfection criticalities and requirements

- Compatible with multiple surfaces materials
- Ability to kill  $10^3$  microorganisms in a short time frame
- Reach complex and hidden surfaces
- Ability to remove powder or liquid droplets

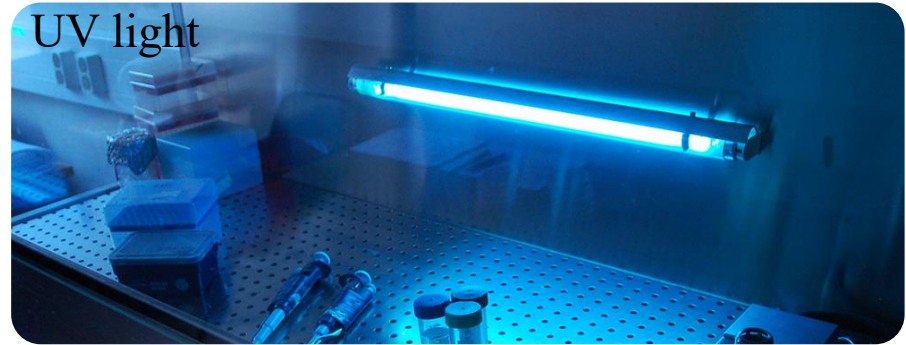


# Different types of disinfections

Vaporised Hydrogen Peroxide



UV light



Manual disinfection

