



ACTIVE H₂O₂ Impact on Sterility Testing

- ✓ Check the diffusion of H₂O₂ into sterility test containers
- ✓ Exclude an effect of the decontamination cycle on the result of the sterility test

Application

Sterility tests are required by regulatory agencies to confirm the absence of microorganisms in product.

Tests are routinely performed under aseptic conditions in isolators to prevent false positive results. Precautions should also be taken to avoid false negative results. Residual H₂O₂ after decontamination might pose a risk to sterility testing by altering properties of growth media or killing present microorganisms, leading to false negative results.



Phenotypic characterization of tested bacteria.

Your Challenge

- Confidence in obtained sterility testing data after decontamination cycles
- Residual hydrogen peroxide might negatively impact media components or falsify outcome of sterility tests

Our Solutions

- Analysis of trace amounts of residual H₂O₂ after decontamination cycles
- Evaluation of killing effect on microbes
- Simulation of sterility testing in worst-case situations

Your Advantages

- Test development in compliance with USP <71>
- Interdisciplinary team with extensive analytical and biological experience
- Customization to your in-house isolates or standard reference strains up to BSL-2 to match your specific process

Our Services

- Decision support and recommendations for action