

## Locks in bacteria

# AQUACEL<sup>®</sup> dressing effectively locks in and retains microorganisms, reducing the microbial load\*

\*In an in vitro model utilising simulated wound fluid

## Study details

### Publication

Infection control properties of some wound dressings. Bowler PG\*, Jones SA\*, Davies BJ, Coyle E. *Journal of Wound Care* 1999;8(10):499-502

\*Employee of ConvaTec Inc.

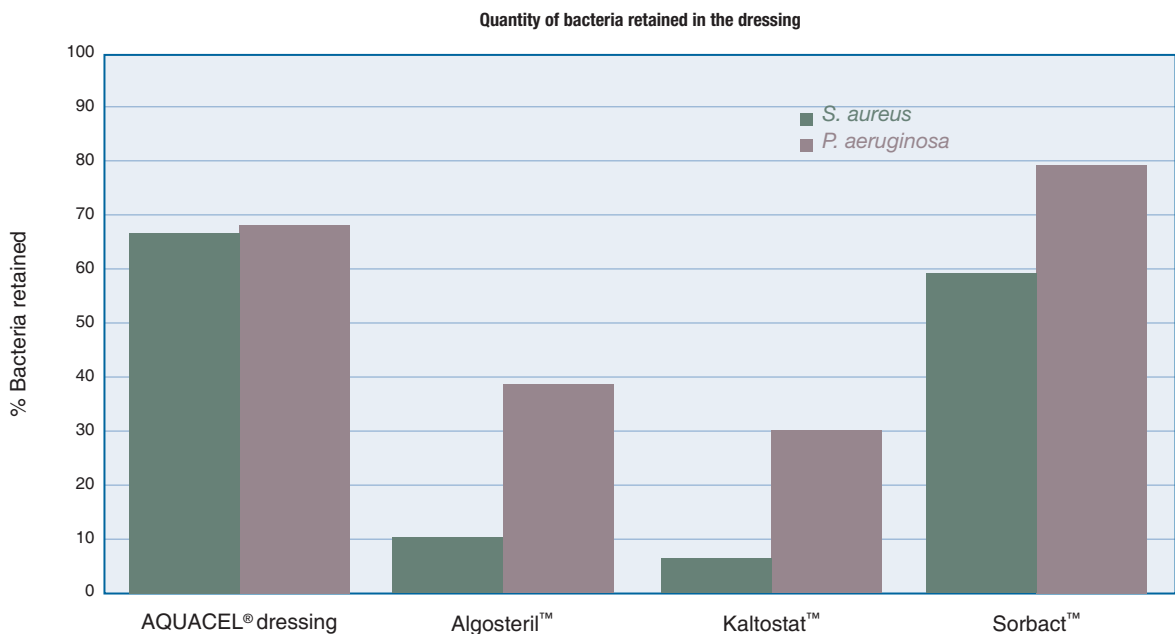
## Design

A bacterial suspension was placed in the base of a Petri dish. The dressing was secured to a stainless steel plate and placed into the Petri dish. A small weight was added to ensure the dressing was in contact with the bacterial suspension for the duration of the study (4 hours). The dressing was then removed and homogenised to determine the quantity of bacteria retained in the dressing.

### Dressings tested

AQUACEL<sup>®</sup> dressing, Algosteril™, Kaltostat™, Sorbact™

## Results



## Conclusion

**“In an in vitro model designed to simulate the use of dressings on heavily contaminated wounds, alginate and hydrofiber dressings were effective in sequestering bacteria via wound fluid. However, hydrofiber and hydrophobic dressings were superior to the alginate dressings in their ability to adsorb and retain bacteria within the matrix of the dressing.”**

This study was funded by ConvaTec Inc.

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AP-006553-MM  
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