Paul Morley Study – Key Findings

Directed misting with 4% Virkon® S reduces environmental bacterial counts of Staphs and Salmonella by significant > 99.9999% or 6 logs in field trial

Aims
Based on earlier work with Virkon® S, Paul Morley’s team of infection control experts performed a new field study to evaluate the efficacy of 4% Virkon® S applied as a mist to surfaces in a large animal hospital. Various locations around the hospital were inoculated with Staphylococcus aureus and Salmonella enterica onto polyester transparencies and after misting with Virkon® S viable bacterial numbers were quantified and compared with growth from control transparencies to assess the reduction in bacterial count.

Results
The study showed that the mean reductions in recovery of Staphylococcus aureus and Salmonella enterica were significantly reduced by > 6 logs for both bacteria, an equivalent to > 99.9999% reduction in CFUs.

Conclusions
In comparison to other disinfectants, the authors stated that the efficacy of Virkon® S was similar to that achieved through aerosolisation of formaldehyde but superior to that achieved by aerosolisation of a glutaraldehyde and quaternary ammonium compound mixture. They concluded that the directed misting application of 4% Virkon® S was a very rapid and efficient method of distributing disinfectant and could easily be applied to a variety of agricultural or veterinary settings.

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