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BVDV efficacy of Sterillium in a quantitative suspension test at 20°C with interfering proteins and cells according to the guideline of DVV/RKI dating 15.06.2005 and EN 14476:2005 (clean and dirty conditions)

EXPERT OPINION

The virus-inactivating properties of the hand disinfectant Sterillium of BODE Chemie GmbH & Co. KG against bovine viral diarrhea virus (BVDV) strain NADL were investigated by a quantitative suspension test according to the guideline of the Deutsche Vereinigung zur Bekämpfung der Viruskrankheiten e.V. (German Association for the Control of Virus Diseases) and of the Robert Koch-Institute (RKI) and additionally with a soil load according to EN 14476:2005 ("clean and dirty conditions").

BVDV was chosen as a surrogate of hepatitis C virus (HCV) since there is no animal model or cell culture system for growing this virus. Testing this surrogate virus the possibility is created to give recommendations for the inactivation of HCV by the disinfectant.

According to this suspension test, a disinfectant or a disinfectant solution at a particular concentration is considered as having virus-inactivating properties if within the recommended exposure period the titre is reduced by $\geq 4 \log_{10}$ (inactivation $\geq 99.99\%$).

Sterillium was examined undiluted at 20°C. 15, 30, 60 and 120 seconds were chosen as exposure times. After an exposure time of 15 s virus reduction exceeded 4 \log_{10} -steps in all assay following Lycke. Therefore, a sufficient activity is demonstrated as follows:

undiluted

15 s


Dr. J. Steinmann