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Statement: Modified vaccinia virus Ankara (MVA) as surrogate virus to confirm virucidal activity against all enveloped viruses

Based on test report of Dr. Brill + Partner GmbH for the surface disinfectant Bacoban WB produced by ROPIMEX R. OPEL GmbH against modified vaccinia virus Ankara (MVA) (test report L21/01278MV.1 dated 20/04/2022) the following concentration and exposure time are necessary for the inactivation of the test virus:

1.0 % 24 hours

in order to achieve a significant reduction ($P < 0,01$) on ceramic tiles under clean conditions in a test based on ASTM E2180. The ceramic tiles treated with a 1.0 % solution of Bacoban WB were stored for 56 days at 50 °C before introduction into the inactivation assay.

In Europe, the modified vaccinia virus Ankara (MVA) represents the official surrogate test virus for all enveloped viruses. For surface disinfectants it is defined in the EN 14476 (quantitative suspension test for the evaluation of virucidal activity of chemical disinfectants and antiseptics used in human medicine (phase 2/step 1) and the EN 16777 (chemical disinfectants and antiseptics – Quantitative non-porous surface test without mechanical action for the evaluation of virucidal activity of chemical disinfectants used in the medical area – Test method and requirements (phase 2/step 2).
The claim is resulting from the prEN 14885:2020 in combination with the above-mentioned standards where details are given how to use the European standards for making claims. From the table in 4.3.2.6 the conclusion can be drawn that after passing examinations with MVA an activity against all enveloped viruses including members of the virus family *coronaviridae* (like MERS-CoV, SARS-CoV-1 and SARS-CoV-2) is achieved.

Dr. D. Paulmann