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EXPERT OPINION

for the bactericidal, yeasticidal and virucidal activity against enveloped viruses

After testing the product **Yusil Handsept** I give the following statement based on the results from the test laboratory HygCen Germany GmbH out of the test reports dated dated 2020-11-05 (SN 30595, PB 2020-2720) quantitative suspension test according to EN 13727, dated 2020-11-05 (SN 30595, PB 2020-2721) quantitative suspension test according to EN 13624 and dated 2020-10-30 (SN 30595, PB 2020-2368, 2020-2583) hygienic hand disinfection according to EN 1500, dated 2020-12-01 (SN 30595, PB 2020-2680) quantitative suspension test according to EN 14476 (*Vacciniavirus Ankara* (MVA)) as well as dated 2020-12-12 (SN 30595, SN 30972, PB 2020-2712) quantitative suspension test according to EN 14476 (*Bovine Coronavirus*).

Results of the in vitro-tests

The quantitative suspension tests were carried out with the test strains *S. aureus*, *E. hirae*, *E. coli* K12, *P. aeruginosa* and *C. albicans* under **dirty conditions**.

The product **Yusil Handsept** shows sufficient reductions of $\geq 5\lg$ units against bacteria and of $\geq 4\lg$ units against *C. albicans*

under **dirty conditions**

in **97%** within **15, 30 and 60 seconds**

Results of the in vitro-tests

The quantitative suspension tests were carried out with the test viruses *Bovine Coronavirus* and *Vacciniavirus Ankara* (MNV) under **dirty conditions**.

The product **Yusil Handsept** shows sufficient reductions of $\geq 4\lg$ units against the enveloped virus *Vaccinia virus Ankara* (MVA) in cultures of BHK-21 cells and *Bovine Coronavirus* in cultures of PT-21 cells

under **dirty conditions**

in **80%** within **30 seconds**

Results under practical conditions

The effectiveness of the product **Yusil Handsept** was tested according to EN 1500 of suitability for hygienic hand disinfection.

According to EN 1500 the test procedure for hygienic hand disinfection with **Yusil Handsept** is non-inferior to the reference procedure.

Therefore, **Yusil Handsept** is suitable for hygienic hand disinfection with the following application:

Rub **2x3ml** of the product **Yusil Handsept** on the hands for 30 seconds.

**Application recommendation for
Yusil Handsept
for hygienic hand disinfection
bactericidal, yeasticidal and virucidal activity against enveloped viruses**

According to the results obtained, the product **Yusil Handsept** complies with the

“Requirements corresponding to phase 2 / step 1 and phase 2 / step 2 standards
according to EN 14885” (status 2018)

with the following application:

Rub 2x3ml of the product Yusil Handsept on the hands for 30 seconds

Remark

Because of carrying out the test according to EN 14476 (2013+A2:2019) against *Vaccinia virus Ankara* (MVA), a **virucidal activity against enveloped viruses** according to European standards can be assumed under the same conditions and the afore mentioned parameters. This includes all enveloped viruses (Annex A) such as HIV, HBV, HCV, influenza viruses and the new Coronavirus (SARS-CoV-2).



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