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## Besvarelse vedr.

- Risikovurdering af virkningen af Virkon S ved lave temperaturer og anmodning om forslag til mulige alternative desinfektionsmidler i forbindelse med rengøring af udstyr, redskaber og køretøjer i minkbesætninger, der er testet positive for SARS-CoV-2.

### Baggrund, relevans og perspektiv

- Beredskabsstyrelsen anvender Virkon S som det primære desinfektionsmiddel ved desinfektion af udstyr, redskaber og køretøjer anvendt i minkbesætninger, der er testet positive for SARS-CoV-2. Af databladet for Virkon S beskrives det, at midlet har effekt ved anvendelse ned til nul grader celsius. Da aflivningen af mink vil strække sig over hele sidste kvartal af 2020 og temperaturen derfor i perioder vil være tæt på eller under nul grader, er der behov for at få vurderet præcis ved hvilke temperaturer Virkon S må forventes at have effekt på SARS-CoV-2 samt få anvist alternative desinfektionsmidler, der vil være effektive under de givne vejrforhold i hele perioden.

### Besvarelse

- It is believed that Virkon S will be effective as a disinfectant against SARS-CoV-2 under a wide range of conditions. The manufacturers (<https://kemi.is/wp-content/uploads/2013/04/Virkon-S-Poultry-LXS.pdf>) indicate that “the broad spectrum efficacy of Virkon S has been independently proven against over 100 strains of viruses in 22 viral families”. These studies were conducted using a wide range of contact times, temperatures and organic challenge levels”. In addition, the document indicates: “Virkon™ S maintains activity against various viruses at 4°C.”

The detergent is stable at lower temperatures and thus presumably as long as it can be sprayed then the Virkon S will be effective at disinfecting surfaces at even cooler temperatures.

However, as described in the reply to FVST journal number 2020-14-81-02827, it cannot be expected that the disinfectant will penetrate deeply into solid material. Clearly if virus is within solid waste then it may not be exposed to the disinfectant and under those conditions loss of virus infectivity will only occur due to the gradual decay of the virus, which can take weeks under cool conditions (coronaviruses can survive for >8 weeks at 5°C in slurry).



Thus, thorough cleaning prior to disinfection seems advantageous (c.f. SOP).

We are unaware of a more suitable disinfectant to use than Virkon S.

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