

## Customer Information Notice CIN110

### trophon® efficacy against coronavirus, including SARS-CoV-2

An outbreak of a novel strain of coronavirus (SARS-CoV-2) has been reported leading the WHO to declare a global pandemic. Coronaviruses have been the etiological agents of two major outbreaks in the past including severe acute respiratory syndrome (SARS) and Middle East respiratory syndrome (MERS). Symptoms can include fever, cough and shortness of breath. There are ongoing investigations on transmissibility, severity and other features of SARS-CoV-2.<sup>1</sup>

### Susceptibility to disinfectants

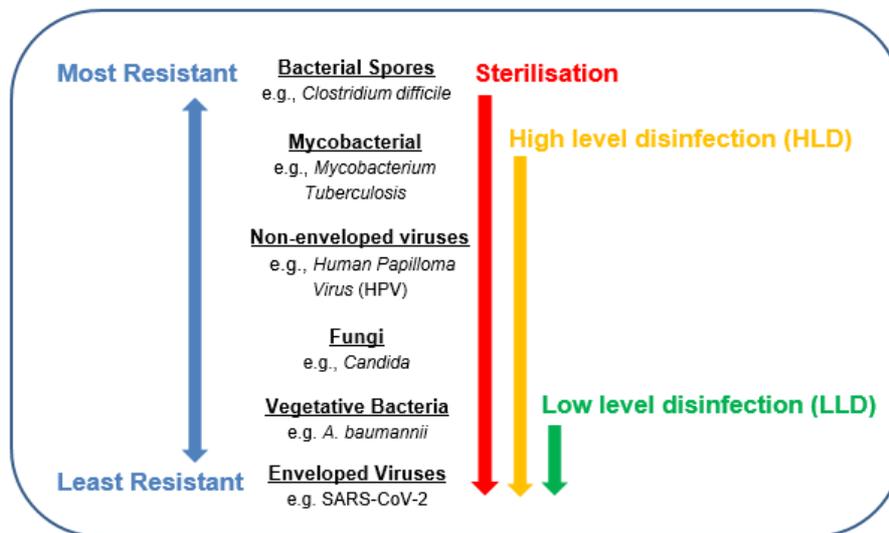
Coronaviruses are enveloped viruses.<sup>2</sup> Enveloped viruses are the most sensitive group of pathogens to inactivation by disinfectants.<sup>3</sup> Vegetative bacteria, fungi, non-enveloped viruses and bacterial spores all show sequentially increasing resistance to disinfectants and are harder to inactivate than the enveloped viruses.<sup>3</sup>

### Susceptibility to disinfectants

The trophon family includes the CE marked trophon EPR and trophon2 high level disinfection devices, which share the same core technology of sonically-activated hydrogen peroxide.

trophon has been tested according to EN standards and has been demonstrated to be virucidal, bactericidal, fungicidal and mycobactericidal.<sup>4-7</sup>

As SARS-CoV-2 is a new virus and has only just emerged, trophon has not been tested directly against SARS-CoV-2.



**Figure 1.** The hierarchy of microbial susceptibility to disinfectants. Adapted from WHO 2016 Decontamination and Reprocessing of Medical Devices for Health-care Facilities.<sup>3</sup>

## References

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3. World Health Organisation (WHO) 2016. Decontamination and Reprocessing of Medical Devices for Health-care Facilities. Geneva. Date Accessed: 29/01/2020. Available at: <https://www.who.int/infectionprevention/publications/decontamination/en/>
4. Vickery K, et al. Evaluation of an automated high-level disinfection technology for ultrasound transducers. J Infect Public Health. 2014;7(2):153-60.
5. Becker B, et al. Virucidal efficacy of a sonicated hydrogen peroxide system (trophon®) EPR following European and German test methods. GMS Hygiene and Infection Control. 2017;12:Doc02.
6. Ryndock E, et al. Susceptibility of HPV16 and 18 to high level disinfectants indicated for semi-critical ultrasound probes. J Med Virol. 2016;88(6):1076-80.
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