

Corona protective shield-clinical

supportive data

Tuttnauer is committed to maintaining the highest clinical and validation standards. Our innovative virus decontamination sterilization cycle was developed based on clinical research and literature review that supports its effectiveness providing a protective shield against the Coronavirus.



The coronavirus (SARS-CoV-2) epidemic suggests that it is quite stable, and there are studies with the current and related viruses from the same family, (e.g. SARS).

Survival study with SARS-CoV-2 demonstrated that the virus can survive in aerosols for a few hours (median survival time 2.7hours) ⁵

Survival studies with SARS and other surrogate viruses were carried out and found the following data:

Survival in body fluids, sputum, serum, feces – **4 days**

Respiratory secretions – **4-5 days**

Drying on plastic material – **6-9 days**

Drying on porous material (papers) – **4 days**



As well as survival at **56°C – 90 min** | **67°C – 60 min** | **75°C – 30 min**

Based on the studies in our literature review, see references below, for every 10 degrees centigrade rise above 56, kill time for this virus for complete inactivation (at least 6 log), gets shorter significantly. One can deduce that at 100 C, kill time will be around 5-7 min.

Based on that, **Tuttnauer** process for SARS-CoV-2 decontamination, for surface and air presence, is configured at 105°C, for 15min.

The report was put together by **Eitan Israeli Ph.D.**

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