



AIR & SURFACE PURIFIER BY  
**puracenz**

## Efficacy to Inactivate SARS-CoV-2 on Surfaces

### ▶ GLP<sup>A</sup> TESTING AT MICROBAC LABORATORIES

#### Efficacy of the OgenaShield Air & Surface Purifier by Puracenz<sup>B</sup> to inactivate SARS-CoV-2 on surfaces.

In order to determine the efficacy of the device to inactivate SARS-Cov-2 (the virus that causes COVID-19) on surfaces, the test was done in a highly biosecure (BSL-3) testing laboratory. Of significance is that due to the BLS-3 regulatory requirements the HVAC system was not allowed to be shut down during the study and needed to be left running constantly. This had to be done in order to assure the 6 fresh air exchanges per hour minimum standard for a Level BSL-3 facility. As such, this was a significant challenge to the Puracenz systems efficacy and one that could be compared to a similar type of challenge in any indoor environment when the rooms window(s) are open.

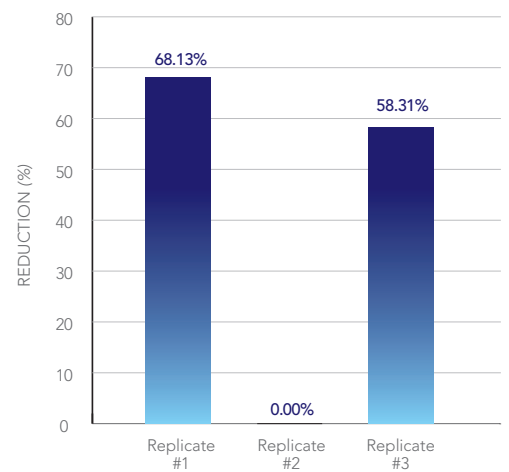
The test was done in one of the laboratory spaces that is drywalled, has vinyl floors and includes furniture and large pieces of equipment in it. Plates were used to hold the viable SARS-CoV-2 virus, testing was done in triplicates. In order to simulate a soil load, 5% fetal bovine serum was used.

The plates were placed on a metal cart at 10 ft from the PCO device. The device was turned on for 60 minutes, after that time (contact time), the amount of live viruses remaining was determined.

The temperature (22 °C) and relative humidity (25 %) were recorded and maintained constant during the experiment.

On average the device was able to decrease the SARS-CoV-2 virus load on the tested surface by 60.72 %. It is important to keep in mind that the high performance HVAC system produced at least 6 air exchanges per hour, which would have a strong impact in removing/lowering the active ions produced by the device.

**PERCENT REDUCTION OF SARS-CoV-2 VIRUS ON SURFACES AFTER 1 HOUR CONTACT TIME**



<sup>A</sup> GLP - Good Laboratory Practice or GLP is a set of principles intended to assure the quality and integrity of non-clinical laboratory studies that are intended to support research or marketing permits for products regulated by government agencies.

<sup>B</sup> This unit uses an advanced and newly patented form of Photocatalytic Oxidation and is not related in any way to systems that produce ions by way of an electrical field, such as BiPolar Ionizers, Pin Point Ionizers or any other system that generates ions through the use of an electrical field.

