

## UVC Disinfection

Before the advent of modern medicine, ultraviolet germicidal irradiation (UVGI) was used as both a treatment and a preventive measure for a variety of diseases. Regardless of the final process, the science behind killing the microorganism is the same; UV energy damages the DNA of the microorganism, rendering it unable to reproduce. With the rapid spread of the global COVID-19 pandemic, we have seen a resurgence of UV.



## **Target Applications**

- Hospitals, Medical facilities, Doctors offices, Dentists

(Higher risk areas: Dialysis, Chemotherapy treatment, etc.)

- Senior Care Facilities (Nursing Homes)
- Indoor public places -restaurants, theaters, retail shopping
- Schools, universities, prisons
- Manufacturing -Food Processing / Handling / Pharmaceutical & Medical Manufacturing

## **Testing**

- 99.9% (3 log) reduction in 60 mins

in a 10x10x10ft (3x3x3m)

- Due to the low test resolution, the device

effectiveness is likely greater.

- The test pathogen, Coliphage $\phi$ X174, has a greater UV resistance than COVID-19.

# EXCELITAS CANADA INC. EFFICACY TEST REPORT

**SCOPE OF WORK**  
Non-standardized Test Method: Microbial Reduction Rate Test

**PRODUCT** – Air Purifier

**MODEL** – LED Upper Air

**REPORT NUMBER**  
104517635COL-001

**ISSUE DATE**  
1/14/21

**PAGES** 5

**DOCUMENT CONTROL NUMBER**  
GFT-OP-10h (6 July 2017)  
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