

## EOLIS AIR MANAGER PERFORMANCE REPORT ON CORONAVIRUSES

An independent French laboratory, specialist in microbiology, has tested the performances of EOLIS Air manager on a coronavirus strain.

### EXPERIMENTAL CONDITIONS

- Air purifier tested : **Serial EOLIS Air Manager 600S equipped with a Perform+ filter block**, consisting of the following components:
  - A biocide pre-filter certified according to EN 14675: 2006 / EN 14476
  - A high-density activated carbon filter
  - A HEPA 13 filter certified according to EN 1822
- An aerosol of droplets, contaminated with a known concentration of human coronavirus (strain HCoV-229E), was generated inside an airtight enclosure for five minutes.
- **The EOLIS Air Manager air purifier was then switched on for 10 minutes at the low speed 2 setting.**
- After operating for ten minutes, an indoor air sample was collected.
- Following an incubation time of seven days, the concentration of surviving viruses in this sample was determined.
- A control test of the purifier without a filter was then compared to a test with a filter. Each test was repeated three times.



The tests on the EOLIS Air Manager air purifier have been entrusted to an independent laboratory

### Selection of viral strain

The strain of coronavirus used during the tests is not the one responsible for COVID-19 for obvious handling and safety reasons. However, NatéoSanté chose to test the effectiveness of EOLIS Air Manager on **a very similar strain of human coronavirus that was discovered in the 1960s: strain 229E.**

**Its physical and biological characteristics** (enveloped, positive-sense, single-stranded RNA structure, dimensions ~60-200 nm, etc.) **are similar to those of all the human coronavirus strains, including the most pathogen ones such as MERS-CoV and SARS-CoV-2.**

### RESULTS

Over an operating period of 10 minutes at speed 2, the EOLIS Air Manager 600S air purifier **eliminates 99.6% of the human Coronavirus 229E** present in the air of the 0,54 m<sup>3</sup> airtight enclosure.

**EOLIS Air Manager** air purifiers are usually **in operation 24 hours a day. Additionally, they offer the cumulated benefits of EN 1822 certified HEPA H13 filtration, UV-C lamps and the active oxygen function.** The results allow us to confirm the effectiveness of EOLIS Air Manager in reducing the airborne coronavirus viral load.