

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 m³ 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.