



مركز التميز العلمي لبحوث الفيروسات
Center of Scientific Excellence for Viruses Research



وحدة تطوير اللقاحات والأختبارات الفيروسيّة
Vaccine Development and Virological Tests Unit



المركز القومي للبحوث
National Research Centre

Methodology

- Habtech-N1 air purifier description

The device eliminates viral load in air by four collaborative elements

- 1- HEPA filter with activated carbon
- 2- UV source
- 3- Negative ion generator
- 4- Ozone generator (500 mg/hr)

- Device settings

3. Device testing was carried out in a biosafety cabinet level III (BSC-III, Germfree) with dimensions of 138 X 59 X 75 cm.
4. Air droplet generator using 3×10^4 hCoV-19/Egypt/NRC-03/2020 was applied in inlet air for 15 and 30 min of Habtech-N1 air purifier.
5. The outlet air was collected as air sample using an Air sampler, (Coriolis-Bertin).
6. The treated samples for indicated times and concentrations were further titrated using real-time RT-PCR assay



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Name of Sample Owner: The Egyptian CO. For Supplies

Tested Instrument: Habtech-N1 air purifier

Tested viruses: SARS-CoV-2 (Causative agent of COVID-19)

Date: 15/03/2022



Antiviral activity of Habtech air purifier against Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV2) hCoV-19/Egypt/NRC-03/2020 (Accession Number on GSAID: EPI ISL 430820).

Time	Inlet (SARS CoV-2 copy No.)	Outlet (SARS CoV-2 copy No.)
15 min	3×10^4	0.00
30 min	3×10^4	0.00

Conclusion

The Habtech-N1 air purifier has high efficient elimination activity for Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) after 15 and 30 min.

Signatures

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