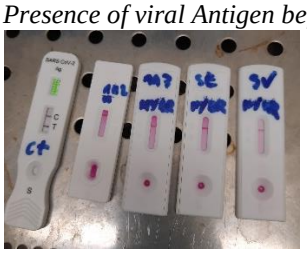
DEPARTMENT OF EXPERIMENTAL MEDICINE
UINIVERSITY OF GENOA - ITALY

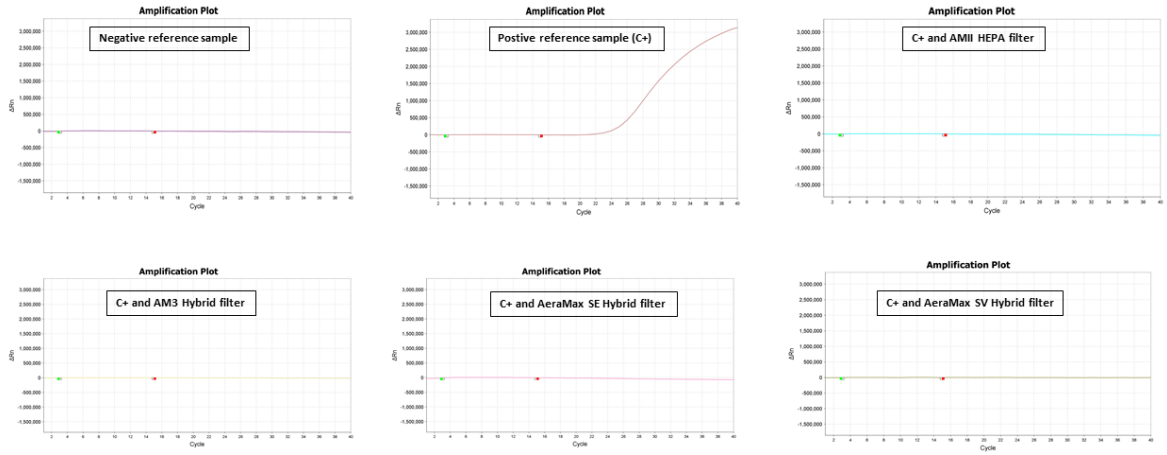
Product description	Fellowes AMII HEPA filter. AM3/AM III, AeraMax SE, AeraMax SV Hybrid filter
Settings	Manual mode, ionizer OFF
Manufacturer	Fellowes
Type of test	Experimental study on the effectiveness of an air purifier for confined environments in neutralizing the contagiousness of the SARS-CoV-2 virus
Methodology	Producing a viral aerosol, passing the viral aerosol through the purifier, collecting samples and evaluating (a) the infectious viral load by cell culture and molecular PCR analysis (challenge test); (b) presence of viral nucleic acid (PCR); (c) presence of viral Antigen.

RESULTS

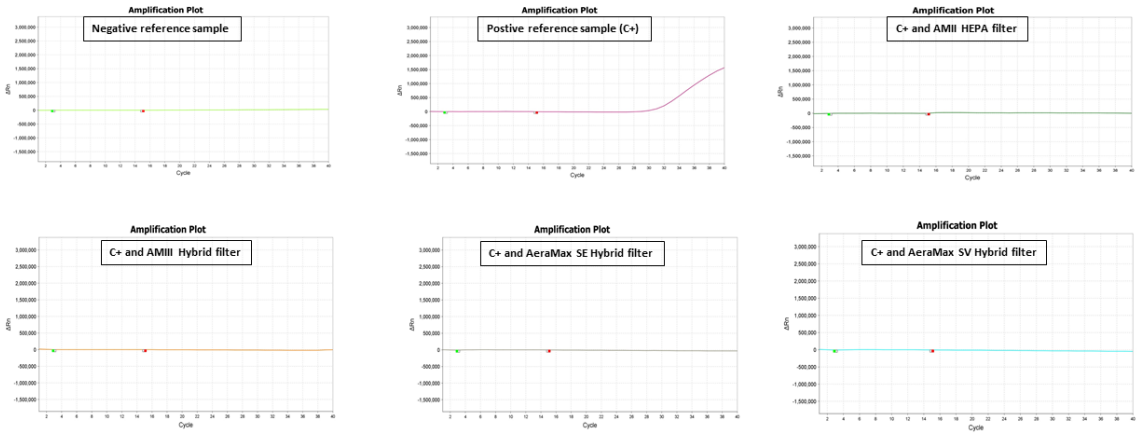
Presence of viral Antigen before (C+) and after sanitization



Presence of viral nucleic acid before (C+) and after sanitization



Infectivity before (C+) and after sanitization



This experiment demonstrates that the Fellowes equipment tested were able to completely neutralize the airborne viral load of SARS-CoV-2. In the experiment, the value of the PCR cycle turned negative compared to the non-purified sample, which had a value of 23 (viral nucleic acid) and 30 (Infectious intracellular viral load).
Therefore, the Fellowes equipment tested are able to eliminate >99.999% of the aerosolized SARS-CoV-2, with the air passing through the purifier a single time.

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