



## Microbiological Disinfection Efficiency of Aavi Air Purification Devices

### Ability to disinfect corona-viruses

According to testes made by VTT (Technical Research Center of Finland) AAVI air purifying devices are able to disinfect virus and bacteria. At VTT (Report VTT-CR-02641, 2018, Microbiological efficacy testing of Aavi Leaf purification device) Aavi Leaf air purification device was tested using strong microbial aerosol released into a closed space. Microbial aerosol contained viruses (phage MS2, size 23 -28 nm), bacterial spores (*Bacillus atrophaeus*, size 1.3 -1.8  $\mu\text{m}$ ) and fungal spores (*Aspergillus niger*, size more than 2  $\mu\text{m}$ ). During the first hour the device lowered the bacterial spore levels over three Log-units and during the same time fungal spore and phage levels dropped under the limit of detection (10 microbes/m<sup>3</sup>).

Size of the Corona- viruses which have caused newest illnesses in China are in range 60 -200 nm, average of 100 nm. This in the size range used in testes made of microbiological disinfection efficacy of Aavi Leaf air purifier. According to this test it is apparent that Aavi Leaf is effective in disinfection of Corona-viruses as well.

A handwritten signature in blue ink, appearing to read 'Pekka Rantanen'.

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