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2930 Malle  
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DATE  
07 April 2021

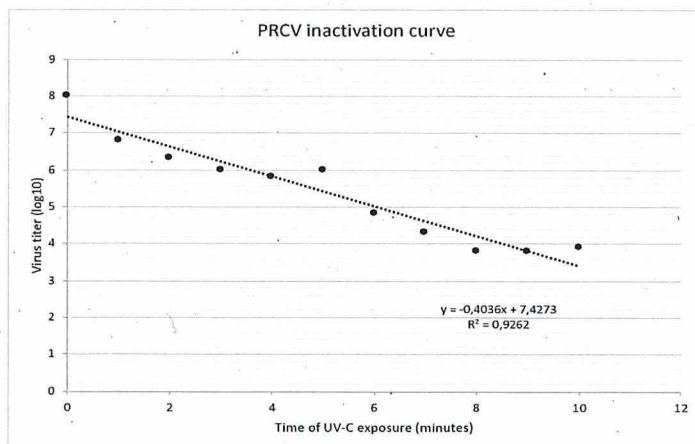
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With this letter, we want to summarize the viral inactivation capacity of the Purify UVC LED device. Three parameters were tested: time, distance underneath the device and distance away from the device. The porcine respiratory coronavirus was used as a prototype coronavirus (surrogate for SARS-CoV-2; validation - see Ludwig-Begall et al. (2020), J. Hosp. Infect. 106, 577-584)

### 1° Time

The time effect was tested at one meter underneath the device. A reduction of infectious virus of 99% was reached at 3.5 minutes; a reduction of 99.9% at 6 minutes and a reduction of 99.99% at 8.5 minutes. The linear inactivation curve can be found underneath.



### 2° Distance underneath the device

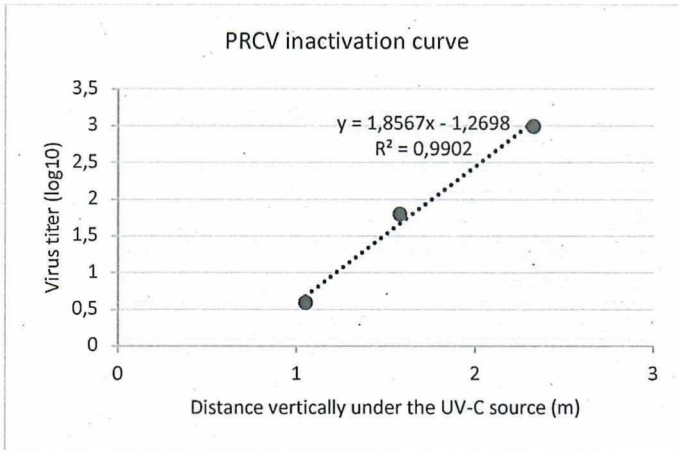
The effect of the distance underneath the device was tested during one hour. A reduction of infectious virus of 99% was reached at 2.5m underneath the device, 99.9% at 2m underneath

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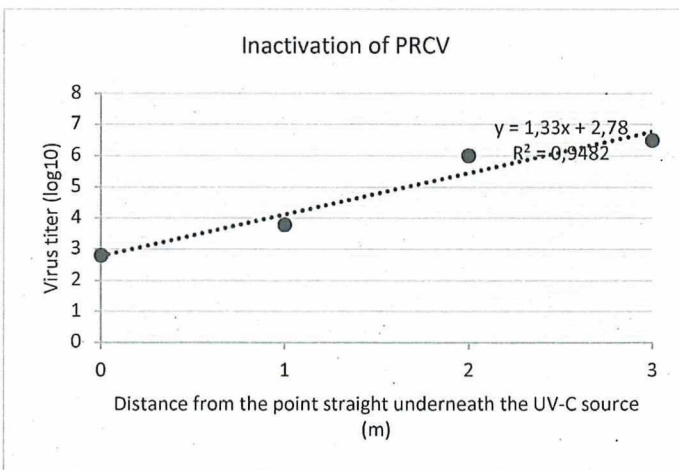
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the device and 99.99% at 1.5m underneath the device. The linear inactivation curve can be found underneath.



3° Distance laterally away from the device

The effect of the distance on the floor, laterally away from the device that was hanging at 2.3 m from the floor was tested during one hour. A reduction of infectious virus of 99% was reached at 2.4m laterally away from the device, 99.9% at 1.7m laterally away from the device and 99.99% at 0.9m laterally away from the device. The linear inactivation curve can be found underneath.



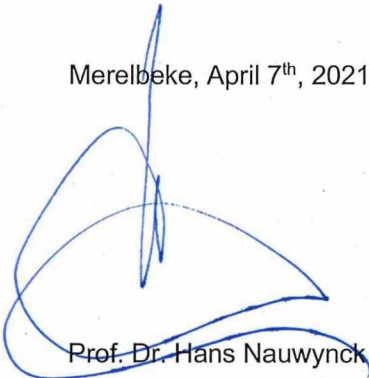
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In conclusion, we can state that the Purify UVC LED device is an excellent device to inactivate coronaviruses under the conditions tested.

Merelbeke, April 7<sup>th</sup>, 2021,



Prof. Dr. Hans Nauwynck

